CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, February 20, 1908.

CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File 53
List of Contracts Pending 53
Railways 53
Electric Railways 54
Light and Power Plants 54
Bridges 55
Buildings 55
Water Supply and Irrigation 56
Sewerage 57
Garbage Disposal 57
Streets and Roads 57
Manufacturing Plants 58
Miscellaneous Contracts 58
U. S. Possessions and Cuba 59
Foreign Contracts and Export News.. 59
READERS' WANTS 59
CIVIL SERVICE EXAMINATIONS..... 59
INDUSTRIAL NOTES 59
PROPOSALS 60

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

The following Plans (P.) and Specifications (S.) are on file and may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York.

2-24*Breakwater, dredging, Algoma, Wis.....(P. & S.) 1-30
2-24 Bridge and dam, Regina, Sask. .....(P. & S.) 2-20
2-27 Ditch, Estherville, Iowa....(S.) 2-13
2-29 Elec. elevators, etc., N. Y. (S.).. 2- 6
3- 1 Water-works supplies, Vancouver, B. C.....(S.) 1-16
3- 4*Wharf, Jamestown, R. I..(P. & S.) 2-13
3- 5 Widening canal, Detroit, Mich. .....(S.) 2- 6
3- 5*Repairing pier, Grand Rapids, Mich.....(S.) 2- 6
3-12 Cement, Panama .....(S.) 2- 6
3-12*Intercepter, St. Louis, Mo. .....(P. & S.) 2-20
3-12 Canal, Ottawa, Ont.....(S.) 1-23
3-14*Wharf, Key West, Fla.(P. & S.) 2-13
3-14*Walls, Buffalo, N. Y..... S.) 1-16
3-16*Dikes, New York.....(S.) 2-13
3-18 Pumping plant, Oakland, Cal. .....(P. & S.) 2- 6
3-21 Bldgs. and passages, Bremerton, Wash. .....(S.) 2-20
4- 1*Canal, Klamath Falls, Ore....(S.) 2-13

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

At once.Gas plant, Noblesville, Ind... 2-20
2-21 Power-house, Annapolis, Md..... 2-20
2-21 Wiring, Nat. Soldiers' Home, Va. 2-20
2-24 Electric equipment, New York.... 2-13
2-24 Light fixtures, Ft. Des Moines, Ia. 2- 6
2-24*Lighting standards, Atlantic City, N. J..... 2- 6
2-24*Lamp brackets, Chicago, Ill..... 2- 6
2-25 Elec. supplies, Wash., D. C.. 2-20
2-25 Steel stack, etc., Waterloo, Wis. 2-20
2-25 Equipment, etc., Augusta, Ga..... 1-30
3- 1 Lights, Radford, Va. 2-13
3- 2 Motors, Nat. Soldiers' Home, Va. 2-20
3- 2*Power-house, dam, Scotland, Conn. 2-20
3- 4 Light Fixtures, Jackson, Minn.... 2- 6
3-16 Power plant, Sheboygan Falls, Wis. 2-20
3-17*Conduit, Los Angeles, Cal..... 3-13
3-18 Elec. equipment, North Chicago, Ill... 2-13
4- 1 Lighting, Mount Vernon, Ind..... 2-13
4- 6 Elec. supplies, Wash., D. C..... 2-20
4- 7 Electric Plant, Lecompte, La..... 2-13

BRIDGES.

2-21 Concrete abutments, Toledo, O.. 2-20
2-24 Bridges, Lincoln, Neb..... 2-13
2-24 Bridge, Scranton, Pa..... 2-20
2-24 Bridge and dam, Regina, Sask.. 2-20
2-24 Bridges, Fredericton, N. B..... 2-13
2-25 Steel bridge, Wilkes-Barre, Pa.... 2-20
2-26*Tunnel roof beams, Hartford, Conn. 2-20
2-26 Steel con. bridge, Cleveland, O.. 2- 6
2-29 Concrete arch bridge, Westpoint, Ohio 2-20
2-29 Bridge, Mallorytown, Ont..... 2-20
2-29 Steel bridge, Newburg, Ont..... 2-20
2-29 Stone arch bridge, Westmoreland, Pa. 2-20
3- 1*Steel superstructure, Monterey, N. L., Mex. 2-20
3- 2 Trestle bridge, Los Angeles, Cal. 2-20
3- 2 Bridge, Greenville, Miss..... 2-20
3- 2 Superstructure, Baltic, Ohio 2-20
3- 2 Bridge repair, Canal Dover, Ohio. 2-20
3- 2 Drawbridge, Gulfport, Miss..... 1-30
3- 3 Steel bridge, Neligh, Neb..... 2- 6
3- 3 Trestle bridge, Wenatchee, Wash. 2- 6
3- 4 Steel bridges, Quincy, Cal..... 2-13
3- 4 Bridge, etc., Eau Claire, Wis..... 2-13
3- 6 Reinforced-concrete bridge, Fergus Falls, Minn. 2- 6
3- 7 Culvert, etc., Cleveland, Ohio.. 2-20
3-14 Steel concrete bridge, Cleveland, Ohio 2-20
3-31 Bridge plank, Watertown, Minn.. 2- 6

BUILDINGS.

At once.Slate, tile, etc., Oswego, N. Y. 2-20
2-21 Post-office, Pine Bluff, Ark..... 1-16
2-24 Steel work, Madison, Wis..... 2-13
2-24 Plans, Uniontown, Pa..... 2-20
2-25 Market, Cleveland, Ohio 2-13
2-25*Post-office, Marinette, Wis..... 1-16
2-26 School, La Crosse, Wis 2-13
2-27 School, Milwaukee, Wis..... 2- 6
2-28*Post-office, Tuscaloosa, Ala..... 1-30
2-28 Refrigerating machinery, (Mfg. Plants), Atlanta, Ga 2- 6
2-28 Bldg. material, Leavenworth, Kan. 2-20
2-29 Hospital, Welland, Ont..... 2-20
2-29 School, Toledo, Ohio 1-13
3- 1 Plans, Winfield, Kan..... 2-20
3- 2 Schools, Cincinnati, Ohio 2-20
3- 2 Gymnasium, Madison, Wis..... 1-23
3- 2 Post-office, Colorado Springs,Colo. 1-23
3- 4 Post-office, Duluth, Minn..... 1-30
3- 5*Post-office, Red Wing, Minn..... 1-30
3- 6 Laundry (Mfg. Pl.), Winfield, Kan. 2-13
3- 7 Building, Seattle, Wash..... 2-20
3-10 Post-office, Greenville, N. C..... 2- 6
3-12*Post-office, Rochester, N. Y..... 2- 6
3-12*Boiler, Key West, Fla..... 2-13
3-16*Cathedral, St. Louis, Mo..... 1-30
3-16 Building, Carthage, S. Dak 2-13
3-16*Hospital, etc., Pensacola, Fla.... 2- 3
3-16*Store house, etc., Ft. Monroe, Va. 2-20
3-17 Hospital, Delaware, Ohio..... 2-20
3-18 Ice machine, Mansfield, Ohio (Mfg. Pl.) 2-20
3-18 Heating, Los Angeles, Cal..... 2-13
3-19*Barracks, Sandy Hook, N. J..... 2-20
3-19*Vacuum system, Los Angeles, Cal. 2-20
3-21 Buildings, Bremerton, Wash..... 2-20
3-23 Plans, etc., Richmond, Va..... 2- 6
3-23 Plans, Rhinelander, Wis 2-13
3-24 Post-office, Grand Rapids, Mich.. 2-20
4- 2*Plumbing, etc., Los Angeles, Cal. 2-20
4- 8 Building, Elkins, W. Va..... 2-13

WATER-WORKS.

2-21 Outlet pipe, Salt Lake City, Utah. 2-20
2-24 Pipe, Sacramento, Cal..... 2-20
2-24*Water pipe, Springfield, Mass.... 2-13
2-27*Boilers, etc., Fort Morgan, Ala.. 2- 6
2-27*W.-Works, Rockingham, N. C. 2-20
2-28 Conduits, etc., Atlanta, Ga..... 2-20
2-28*Reservoir, etc., Brewster, N. Y. 2- 6
3- 1 Canal, Klamath Falls, Ore..... 2- 6
3- 1 Water pipe, Calgary, Alta..... 2-20
3- 1 Water mains, Kittery, Me..... 2-20
3- 2 Reservoir, etc., Helena, Mont.... 2-20
3- 2*Dam, etc., Norwich, Conn..... 2-20
3- 3 W.-Works, Childress, Tex..... 2-20
3- 3*Pump, Dallas, Tex..... 1-30
3- 3*Pumping engines, Philadelphia, Pa 2-13
3- 9 Gravity filter, Rome, Ga..... 2-20
3-11*Water supply, Elkhart, Ind..... 2-13
3-16 Pipe, Vancouver, B. C..... 2-20
3-18*Salt-water pumping plant, Oakland, Cal. 2- 6

SEWERS.

2-24 Sewer system, Takoma Park, D. C. 1-30
2-24 Sewage disposal, Berkeley, Cal.. 2-20
2-25 Sewers, Cleveland, Ohio..... 2-20
2-25 Sewer pipe, Washington, D. C.. 2-20
2-25 Sewer, New York, N. Y..... 2-13
2-27*Pipe sewer, Upper Sandusky, O... 2-13
2-28 Sewers, St. Louis, Mo..... 2-20
3- 2 Sewers, Washington, D. C..... 2-20
3- 2 Sewers, Ludington, Mich..... 2-20
3- 2 Sewer, Wichita, Kan..... 2-20
3- 2 Pipe sewer, Red Oak, Iowa..... 2-20
3- 2 Sewer, Aurora, Ind..... 2-20
3- 3 Tile sewers, Marquette, Mich.... 2-20
3-10*Sewers, Gary, Ind 2-13
3-12*Intercepter, Louisville, Ky..... 2-20
3-17*Sewer system, etc., Auburn, N. Y. 1-30
3-25 Sewers, Jackson, Ohio..... 2- 6
3-30*Sewers and terra cotta pipe, St. Marys, Pa..... 2-20

STREETS AND ROADS.

2-21 Brick paving, etc., Kenosha, Wis.. 2-13
2-21*Street improvement, Salt Lake City, Utah 1-16
2-21 Street improvement, Kenosha, Wis. 2-20
2-21 Pike improvement, Mount Healthy, Ohio 2-20
2-21 Street improvement, Cincinnati, Ohio 2-20
2-22 Gravel road, Terre Haute, Ind.. 1-23
2-25 Grading, etc., Olympia, Wash..... 2-13
2-25 Grading, Olympia, Wash..... 2-20
2-25 Brick paving, Cedar Falls, Iowa.. 2-20
2-25*Asphalt paving, etc., Cortland, N. Y. 2-20
2-25 Earth road, Seattle, Wash..... 2-20
2-26 Road, Goldendale, Wash..... 2-20
2-26 Grading, etc., Louisville, Ky.... 2-20
2-26 Asphalt pavement, Bklyn., N. Y.. 2-13
2-27*Paving, Smethport, Pa..... 2-20
2-28 Brick, etc., Minneapolis, Minn.. 2-20
2-28 Grading, etc., Louisville, Ky.... 2-20
2-29 Gravel road, Terre Haute, Ind.. 2-20
2-29 Grading, etc., Cleveland, Ohio.... 2-13
3- 2 Macadam roads, Fort Hunt, Va.. 2-13
3- 2 Sidewalks, Fayetteville, Tenn..... 1-16
3- 2 Grading, Fort Williams, Me..... 1-30
3- 2 Macadam road, Ft. Terry, N. Y.. 1-30
3- 2*Macadam roads, etc., Fort Dupont, Del. 2- 6
3- 2*Roads, etc., Fort Meade, S. Dak. 2- 6
3- 2 Brick pavement, etc., Ottawa, Ill. 2-20
3- 2 Curbing, etc., Titusville, Pa..... 2-20
3- 2 Gravel road, Lebanon, Ind..... 2-20
3- 3 Stone road, Monticello, Ind..... 1-30
3- 3 Grading, etc., Peru, Ind..... 2-20
3- 3 Roads, Spencer, Ind..... 2-20
3- 4 Gravel road, Rockville, Ind..... 2-20
3- 5 Gravel road, Vincennes, Ind..... 2-20
3- 5 Resurfacing, Wash., D. C..... 2-20
3- 5*Brick pavement, etc., Corning, N. Y. 2- 6
3- 7 Paving, Racine, Wis..... 2-20
3- 9*Grading, etc., Oil City, Pa..... 2-20
3- 9 Widening roadway, Sandusky, O. 2-20
3-11*Grading, etc., Paterson, N. J.... 2-20
3-13 Road improvement, Cincinnati, O. 2-20
3-14 Street improvement, Watertown, Wis. 2-20
4- 1*Roads, etc., Fort Wood, N. Y... 2- 6

MISCELLANEOUS.

2-21 Dredging, Port Arthur, Tex.... 2- 6
2-21 Rebuild wharf, Ft. McHenry, Md. 2-13
2-24 Box, ballast cars, Panama..... 2-13
2-24 Nozzles, pipe-holders, etc, New York, N. Y. 2-13
2-24 Eng. supplies, Panama 2- 6
2-24*Breakwater, etc., Algoma, Wis.. 1-30
2-25 Steamers, New York, N. Y..... 2-13
2-26 Ditch, Rockwell City, Iowa..... 2-20
2-27 Blasting material, Panama..... 2-20
2-27 Ditch, Rockwell City, Iowa..... 2-20
2-27 Ditch, Estherville, Iowa..... 2- 6
2-27*Ry. yards, Philadelphia, Pa.... 2-13
2-27 Garbage collection (Garbage), Ambler, Pa 2-20
2-28 Slate, lumber, etc., Leavenworth, Kan.... 2-13
2-28 Cement, Atlanta, Ga..... 2- 6
2-29 Elec. elevators, etc., New York.. 2- 6
3- 2 Tugs, Ottawa, Ont..... 2-20
3- 2 Piers, Santa Monica, Cal..... 2-20
3- 2*Dredging, Springfield, Ohio..... 2-20
3- 2 Fire extinguishers, New York... 2-20
3- 2 Grand stand, New York..... 2-20
3- 2 Harbor entrance, Toronto, Ont... 2-20
3- 3 Ditch, Charleston, Miss..... 2-20
3- 3 Fire hose, New York, N. Y..... 2-20
3- 3 Breakwater, Key West, Fla.... 2-13
3- 3 Drainage ditch, Charleston, Miss. 2-13
3- 4 Wharf, Jamestown, R. I..... 2-13
3- 5*Repairing pier, Grand Rapids, Mich 2- 6
3- 5 Widening canal, Detroit, Mich.... 2- 6
3- 5 Rail pipe fence, New York, N. Y. 2-20
3- 6*Flood control, Harrisburg, Pa.. 2-20
3-10*Barge canal, Albany, N. Y..... 2-20
3-10 Steamer, Wash., D. C..... 2-13
3-10 Railway construction, Trans-Continental Ry 2-13
3-11*Piers, Baltimore, Md..... 2-20
3-11*Dredging, New London, Conn.... 2-20
3-12 Cement, Panama 2- 6
3-12 Canal, Ottawa, Ont 1-23
3-13*Dredging, New London, Conn.... 2-20
3-14*Walls, Buffalo, N. Y..... 1-16
3-14*Wharf, Key West, Fla..... 2-13
3-15*Sinking shaft, York, Pa..... 2-20
3-16*Dikes, New York, N. Y..... 2-13
3-31*Breakwater, Hawaii, T. H..... 2-13
4- 1*Dock, wharf, New York, N. Y.. 2-20
5- 1 Floating crane, Quebec, Que..... 2-20
5-11*Reduction works, Columbus, O.. 2-20

FOREIGN.

3- 7 Railways, Bulgaria 2-13
3-14 Tramways, Roumania 2-20
3-23 Port Construction, Bulgaria..... 2-20
3-31 Railway hotel, Cape Colony 1-30
3-26 Port improvements, Brazil..... 2-13
4-25 Dredger, Argentina 2-13
5- 1 Elec. railway, Argentina 11-21
5-26 'Phone material, Australia..... 2-13

CIVIL SERVICE.

2-26 Testing asst., Washington, D. C. 2-13
3- 4 Apprentice draftsman, Wash., D. C..... 2-13
3- 4 Aid, Washington, D. C..... 2-20
3- 4 Food Inspector, Wash., D. C..... 2-20
3- 4 Supervis. Engr., Tennessee 2-20
3- 4 Clerk, Wash., D. C..... 2-20
3- 4 Statistician, Wash., D. C..... 2-20
3- 4 Apprentice Draftsman, Wash., D. C. 2-20
3- 4 Executive Asst., Wash., D. C.... 2-20
3- 4 Asst. Geologist, Wash., D. C.... 2-20
3- 7 Bldg. Inspector, Albany, N. Y.. 2-20
3- 7 Engineering Inspector, Albany, N. Y. 2-20
3- 7 Rodman, Albany, N. Y..... 2-20
3- 7 Arch. Designer, Albany, N. Y.. 2-20
3- 7 Asst. Gas Inspector, Albany, N.Y. 2-20
3- 7 Asst. Transfer Tax Clerk, Albany, N. Y. 2-20
3- 7 Tracer, Albany, N. Y..... 2-20
3-21 Clerk, Albany, N. Y..... 2-20
3-21 Junior Clerk, Albany, N. Y..... 2-20

RAILWAYS.

BAKERSFIELD & VENTURA.—Contracts have not been let yet for building this railway, which will run from Los Angeles to San Francisco, via Oxnard, Sespe and Bakersfield, about 420 miles. Surveys have been made and right-of-way secured. This railway is owned by the Smith Estate, of Los Angeles. T. B. Blackburn is Ch. Engr., Oxnard, Cal. Noted previously.

BALLINGER & ABILENE.—Company has been granted a charter to build a line 53 miles long from Ballinger to Abilene, Tex. The officers are: C. A. Doose, Pres., Ballinger; John I. Guion, First Vice-Pres.; J. W. Powell, Second Vice-Pres.; Tom Ward, Third Vice-Pres.; J. McGregor, Secy.; Jo Wilmeth, Treas.; W. J. McDaniel, Ch. Engr. and Gen. Mgr.; C. O. Harris, Gen. Attorney, C. H. Willingham, W. J. Miller and W. E. Allen, of Ballinger; and Cicero Smith and R. K. Wylie of Mineral Wells, are also among the incorporators. Noted on Jan. 2.

BIRMINGHAM, COLUMBUS & ST. ANDREWS.—Surveys for this proposed railway have been completed from St. Andrews, Fla., to Columbus, Ga., 200 miles, and are in progress from Chipley, Fla., to Enterprise, Ala., 60 miles. Grading has been completed from Chipley to McMillan, Fla., 35 miles, and is in progress from McMillan to St. Andrews Bay, Fla., 15 miles. This railway will connect Birmingham, Ala., with St. Andrew's Bay, Fla., 360 miles. W. M. Gordon is Pres., Chipley, Fla.; W. H. Edinger, Ch. Engr., Wausau, Fla. Noted Feb. 6.

BRISTOL & KINGSPORT.—We are officially informed that estimates are being prepared for this railway. Two lines have been surveyed between Kingsport and Bristol, Tenn., one via Blountville, and the other via Silvicola (Arcadia post-office). It will be about 34 miles long. Surveys are completed. Line will be decided upon when estimates are completed. Maximum grade, 1%; maximum curve, 4°. F. H. Cothran is Ch. Engr., Bristol, Tenn. Noted on Nov. 14.

CHICAGO, BURLINGTON & QUINCY.—This company plans to build a line from its connection with the Northern Pacific Ry. in Montana to its terminus at Kearney, Neb. G. W. Holdrege is Gen. Mgr., Omaha, Neb.

COFFEYVILLE & MEMPHIS.—Plans are under way for beginning the construction of this railway at Coffeyville, Kan., this spring. This company was incorporated with a capital stock of $1,000,000 in November, 1906, to build from Coffeyville, Kan., to Memphis, Tenn., via Centralia, Kan., Vinita and Afton, Okla., and Little Rock, Ark. Coffeyville has subscribed $30,000 to aid construction of this railway; Centralia has subscribed $20,000, and Vinita, $40,000. Construction will begin in the spring. Those interested in the project are: J. O. Hall, W. P. Brown, E. C. Kiddoy, E. A. Roser, P. H. Crahon, G. L. Gabler, J. E. McCluney, A. J. Yoke and W. C. Hall, all of Coffeyville, Kan.; C. E. Bennett and O. H. Selby, of Oklahoma City, Okla., and J. E. Lehman, of Centralia, Kan. Noted on Nov. 7, 1907.

FARMERS' & MERCHANTS' RY.—Incorporated in Oklahoma with a capital stock of $6,000,000 to build from the north line of Hardeman County, Tex., to the north line of Harper County, Okla., 200 miles. Incorporators: H. W. Morris and C. B. Hollmark, of Eldorado, Okla., and W. G. Crowder, L. Simpson and M. M. Hawkins, of Quanah, Tex. (See Oklahoma Southern.)

GRAND RAPIDS & NORTH WESTERN.—We are officially advised that the National Construction Co., Tacoma Bldg., Chicago, has made all preliminary and location surveys for the extensions and rebuilding of this line. T. R. Philbin is Ch. Engr. of the Construction Co. The name of this company, the incorporation of which was noted last week, is the Grand Rapids & North Western, and not "Grand Rapids & Northern." The old roadbed to be used is that of the Mason & Oceana Ry., and not the Manistee & Oceana.

GREAT SOUTHERN.—Company will extend its line from Dufur, Ore., to Tygh Valley. It now operates 30 miles of railroad between The Dalles and Dufur. J. S. Heimrich is Gen. Mgr., The Dalles, Ore.

KANSAS SOUTHERN & GULF.—This company has let contract to J. E. Williams, of Westmoreland, Kan., to make the permanent survey for this railroad from Westmoreland to Manhattan, 122 miles. The extension will include a 300-ft. bridge over the Blue River. Surveys are made for an extension from Blaine, Kan., to Falls City, Neb., 65 miles. As noted on Dec. 19, "O. J. Collman, Gen. Mgr., Westmoreland, Kan., states that an extension will be built. This line now runs from Blaine through Moodyville Springs to Westmoreland, Kan. The first section of the proposed extension will run from Westmoreland through Flush to Manhattan, a distance of 22 miles, when connection will be made with the main line of the Union Pacific, the Blue Valley Line to Lincoln, Neb., and the main line of the Chicago, Rock Island & Pacific from Kansas City to Denver. From Manhattan the route is in a southwesterly direction to Wichita and Oklahoma, while northward from Westmoreland the road will be extended to Sabetha, Sycamore Springs, Kan., and Falls City, Neb."

LITTLE FALLS, ST. JOHNSVILLE & JOHNSTOWN.—At a recent meeting at Little Falls, N. Y., steps were taken toward building a railroad from Little Falls to Johnstown. It was decided to proceed at once with the organization of the company, to draw up incorporation papers, secure franchises, make surveys and purchase a right-of-way. The committee consists of Eugene Walrath, D. H. Burrell, Timothy Dasey, A. B. Santry and Irving Snell of Little Falls; Frederick Englehardt of St. Johnsville, Mayor Beebe, E. M. Kennedy, William Decker, John Potter, C. I. Combes and Fred. L. Carroll of Johnstown. This committee will hold a meeting soon to arrange the incorporation of the Little Falls, St. Johnsville & Johnstown Railroad Co. It is said that the residents of Amsterdam, N. Y., are about to incorporate a company which will have a junction with the Fonda, Johnstown & Gloversville R. R. at Tribes Hill and run to Fonda, Palatine, Fort Plain, St. Johnsville and Little Falls. It is said that this Amsterdam company has raised $4,000 and will start the surveys at once.

MASON & OCEANA.—See Grand Rapids & North Western.

MISSISSIPPI VALLEY.—C. C. Curl, Secy. and Treas., Portland, Ark., confirms the announcement that this company has taken over the Portland & Southeastern R. R., running from Portland, on the St. Louis, Iron Mountain & Southern Ry., to Empire, Ark., eleven miles, and thence southward about five miles to Morgan Mill. At present no extension will be made. J. H. Byrd is Pres. and M. G. Price is Vice-Pres. and Gen. Mgr., Missouri Trust Bldg., St. Louis. H. L. Pittman is Supt. at Portland, Ark. Noted last week.

NEVADA.—J. A. Orem, who with his associates controls the Nevada, Douglas & Ludwig copper mines at Yerington, has stated that a broad-gage railroad will soon be built from Wabuska to Yerington, Nev., and the Nevada, Douglas and Ludwig mines, and that a smelter will be constructed at the Ludwig.

OVERTON COUNTY.—Regarding the statement that this company may build an extension from Livingston, Tenn., to Somerset, Ky., 74 miles, G. L. Wilkins, Pres., Chicago, advises us that "it is very uncertain when contemplated extensions will be made." This

company now operates a line from Algood to Livingston, Tenn., 19 miles, making connection with the Southern Ry. at Algood. E. C. Knight is Secy., Livingston, Tenn. Noted on Jan. 9.

PACIFIC & EASTERN.—J. W. Morris has been appointed chief engineer of this company, with headquarters at Medford, Ore. We are officially informed that an extension from Eagle Point to Butte Falls, Ore., 21 miles, is immediately planned. Noted on Jan. 30.

PORTLAND & SEATTLE.—Amended articles of incorporation, changing the name of this company from "Portland & Seattle" to "Spokane, Portland & Seattle," have been filed with the Secretary of State, Tacoma, Wash. The change was made at the request of Spokane shippers and business men. H. C. Nutt is Gen. Mgr. at Tacoma.

SANDY RIVER & RANGELEY LAKES.—This company has been organized at Gardiner, Me., with a capital stock of $241,600 to take over all the narrow gage railroads in that region. The Sandy River, the Franklin & Megantic and the Kingfield & Dead River railroads have been taken into the new company and in about 60 days the Phillips & Rangeley Railroad, which includes the Eustis and the Madrid railroad, will be taken over. The Phillips & Rangeley railroad has been in the hands of Seth Carter of Lewiston as receiver for three years. All these roads are of narrow-gage construction. The Sandy River R. R. was opened in Nov., 1879, and was the first 2-ft. gage railroad in Maine. The officers of the new company are as follows: Pres., Weston Lewis, Gardiner; Treas., George A. Farrington, Gardiner; Gen. Passenger and Freight Agent, F. N. Beal, Phillips; Supt., F. A. Lawton, Phillips; Gen. Mgr., Josiah S. Maxcy, Gardiner. Messrs. Maxcy and Lewis own practically all the stock of the roads.

SPOKANE, PORTLAND & SEATTLE.—See Portland & Seattle.

VEBLEN & NORTHWESTERN.—This railway is to be built from Veblen, S. Dak., to Wheaton, Minn., 37½ miles. Right-of-way and necessary capital have been obtained and surveys made. We are officially advised that date for receiving bids and letting contracts has not been decided. H. A. Blake is Ch. Engr., St. Louis, Mo. A. H. Dahl is Pres., Vernon, S. Dak. Previously noted.

WASHINGTON, WESTMINSTER & GETTYSBURG.—Surveys have been completed for this railroad, which will be built from Washington, D. C., via Westminster, Md., to Gettysburg, Pa., 90 miles. Company is now securing subscriptions. A branch from Damascus to Frederick, Md., 20 miles, is also proposed. Walter Attee, Marine Bank Bldg., Baltimore, Md., is Ch. Engr. J. B. Colgrove is Pres.; Edwin Thomas, First Vice-Pres.; A. A. Chapin, Second Vice-Pres.; Robert N. Harper, Treas. Noted under Electric Railways (Frederick, Md.) on Dec. 12 and previously.

ELECTRIC RAILWAYS.

PORTLAND, ME.—The Hancock & Lake Linden Traction & Power Co. has been incorporated in Maine to build traction and power lines. Capital stock, $800,000. Incorporators: J. E. Manter, Pres.; C. E. Eaton and M. W. Baldwin, all of Portland.

BABYLON, N. Y.—The Village Board has granted the South Shore Traction Co. a 50-year franchise.

NEW YORK, N. Y.—For details regarding proposed Broadway-Lexington Ave. subway see under Miscellaneous Contracts.

BETHLEHEM, PA.—The Blue Ridge Traction Co. has filed notices of extensions from a point on the Walnutport-Davidsville road to Poplar Grove, Cherryville, Alliance, Weaversville and Bath; also from Alliance, where a bridge will be built, to Catasauqua, a total distance of 16 miles. A. N. Brown is Gen. Mgr., at Bethlehem.

BALTIMORE, MD.—The Baltimore & Pennsylvania Railway & Power Co. has applied for authority to incorporate in Maryland to build a railway from Reisterstown, in Baltimore County, through Carroll County and into Pennsylvania. Incorporators: William Massenheimer, Charles J. Wells, Jesse A. Davis, Henry M. Foster and C. Dickerson Day. See under Railways.

MORGANTOWN, W. VA.—The Morgantown & Dunkard Valley Electric Ry. Co. is reported to have commenced grading on this proposed 4-mile electric line from Morgantown to Star City, W. Va. The plans include a bridge 600 ft. long. W. W. Smith is Secy. and Treas., Morgantown.

VALPARAISO, IND.—S. C. Dickey, Gen. Mgr. of the Winona Interurban Ry. Co., Winona Lake, Ind., informs us that the proposed extension of this railway between Valparaiso and Fort Wayne, Ind., will parallel the Fort Wayne Division of the Pennsylvania R. R. It will be about 100 miles in length. Surveys are made and right-of-way and capital for construction are partly secured. H. H. Murray is Ch. Engr., Winona Lake. Date for letting contracts is indefinite.

AUGUSTA, GA.—The Atlanta & Carolina Construction Co., Atlanta, has secured a 32-year franchise for the operation of its interurban cars in Augusta. The company is to pay the city $1,666 annually for the privilege and the line must be completed within two years. Matthew Mason is Vice-Pres. and Gen. Mgr., Atlanta. Noted on Jan. 30 and Jan. 9.

INDIANAPOLIS, IND.—The Indianapolis & South Bend Traction Co. has filed articles of incorporation. Capital stock is $10,000. The company proposes to construct and operate street and interurban railways for passengers and freight service, the main line, with its several branches, to connect Indianapolis, Westfield, Sheridan, Kirklin, Michigantown, Burlington, Logansport, Rochester, Plymouth, South Bend, La Fayette, Clarkshill, Linden, Veedersburg, Delphi, Flora, Kokomo, Frankfort, Tipton, Lebanon and Noblesville. Robert H. Keller, John Keller and Edward M. Bowman, of Indianapolis, are the Directors. Noted fully on Oct. 31 and Nov. 14.

FRANKFORT, IND.—A. A. Newer, Deer Creek, Ind., is interested in project to build an electric railway from Frankfort, via Burlington, to Logansport, Ind., 37 miles. Mr. Newer advises us that it is desired to have a company take up this proposition. The towns along the line will donate liberally. Surveys were made about seven years ago. Right-of-way and capital have not yet been secured. Noted on Jan. 9.

HOUGHTON, MICH.—James T. Healy, of Houghton, representing the South Range Street Ry. Co., has applied for a franchise to build an electric line from Houghton to South Range, Mich. If granted, the line may be constructed and in operation within a year, through a rich copper mining district. C. C. Douglass and C. D. Hanchette also are interested.

MOUNT CARMEL, ILL.—We are officially advised that a meeting was held at Grayville, Ill., on Feb. 12, for the purpose of promoting the building of a new railroad to be called the Evansville, Mount Carmel & Olney Interurban Co. Thirteen directors were elected, at the head of whom is Aden Knoph, of Olney, Ill. E. Q. Lockyear, of Evansville, is Atty., and Guy W. Courter, of Mount Carmel, Ill., Ch. Engr. Another meeting will be held soon at Vincennes, Ind., at which time organization will be completed, officers elected, etc. Application for incorporation under the laws of the State of Indiana has been filed.

CHICAGO, ILL.—The local Transportation Committee of the Chicago City Council has under consideration an ordinance which provides for a consolidation of the Calumet Electric Street Ry. and the South Chicago City Ry. The ordinance is modeled after those of the Chicago City Ry. and the Chicago Railways Co. and provides that the city shall receive 55% of the net receipts. Provision is made for a thorough rehabilitation of the properties and for the construction of several extensions, but not for exchange of transfers with the Chicago City Ry. It is stated that the consolidation will be effected as soon as the ordinance is passed. D. M. Cummings is Vice-Pres. of the South Chicago Co., 405 First National Bank Bldg., Chicago. H. M. Sloan, 9314 Drexel Ave., Chicago, is Gen. Mgr. of the Calumet Co.

TAYLORVILLE, ILL.—The Taylorville Chamber of Commerce has appointed the following committee to assist in securing the right-of-way in Christian County for the proposed St. Louis, Terre Haute & Quincy Traction Co.'s railway: South Fork, John Fesser, Jacob Craig, Henry Achenbach, Peter Achenbach; Bear Creek, J. J. Achenbach, C. C. Curtin, A. M. Hewitt, E. E. Dodson; King, George Deal, Peter Cashin, John Bradford, A. M. Allen; Taylorville, A. T. Kinney, H. Jayne, Fred Elliott. The work of securing the right-of-way has been commenced. Noted fully on Jan. 2.

ALBIA, IOWA.—We are officially advised that the Albia Interurban Ry. Co. has completed surveys for the line from Albia to Hiteman, seven miles, and that contracts will be let in about 90 days. J. P. Reese is Pres.; C. B. Judd, Ch. Engr.; W. E. Gout, Supt., all at Albia. Previously noted.

DALLAS, TEX.—The Dallas Interurban Electric Ry. Co., 219 Commerce St., has elected officers as follows: Henry Dorsey, Pres.; I. J. Willingham, First-Vice-Pres.; Robert Ralston, Second Vice-Pres.; M. H. Wolfe, Third Vice-Pres.; S. A. Stemmons, Secy.; W. W. Caruth, Treas.; W. H. Clark and W. T. Henry, Gen. Counsel. Noted fully on Jan. 9 and Dec. 12.

FORT WORTH, TEX.—The Fort Worth, Weatherford & Mineral Wells International Construction Co. has been organized to build the proposed line of electric railway from Fort Worth to Mineral Wells, Texas, via Weatherford, for the Fort Worth, Weatherford & Mineral Wells Interurban Ry. Co. Construction may be completed this year. G. M. Bowie, of Weatherford, is Pres.; J. T. Hill, of Mineral Wells, Secy. Others interested are Stuart Harrison and J. P. Spencer, of Fort Worth; Charles McFarland, of Weatherford, Cicero Smith of Mineral Wells. Previously noted.

CLAREMORE, OKLA.—This city was erroneously noted last week as "Claremont."

NORTH YAKIMA, WASH.—The Yakima Inter-Valley Elec. R. R. Co. has been incorporated in Washington to build an electric railway from North Yakima to Granger, Wash., in the Sunnyside valley. It is planned to complete the line by next fall. It will be 36 miles long and include Zillah and the Parker bottom in the route. Capital stock, $1,000,000. Incorporators: Henry H. Lombard, Mayor, North Yakima; J. H. Thomas, A. B. Wilcox, C. H. Furman, George P. Eaton, R. E. Page and Walter N. Granger. Noted on Feb. 6, under Granger, Wash.

ST. JOHN, WASH.—The Spokane and Inland Empire R. R. Co. is making an estimate of the cost of right-of-way between St. John and Steptoe Butte. The Commercial Club of St. John is interested. E. E. Lillie is Supt., Spokane, Wash.

SAN DIEGO, CAL.—Articles of incorporation of the San Diego Southern R. R. Co. have been filed in California. The company is incorporated by John D. Spreckels, A. B. Spreckels, J. D. Spreckels, Jr., William Clayton and H. L. Titus, the last two named being the general manager and attorney of the various Spreckels railroad interests here. The purpose of the incorporation is to build, equip and operate a railroad between the city of San Diego and the town of Ensenada, Lower California, Mexico. The company is capitalized for $5,000,000. Motive power is not specified.

RENO, NEV.—A petition has been presented to the City Council by S. H. Wheeler and Charles H. Burke asking for a franchise for street railway purposes.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

HOLYOKE, MASS.—Contracts for equipment for the municipal electric light plant have been awarded by W. H. Snow, Mgr. of the Gas and Electric Light Department, as follows: For four 400-HP. water-tube boilers to the BABCOCK & WILCOX CO., 85 Liberty St., New York, N. Y., for $20,745; four mechanical stokers to the MURPHY IRON WORKS, of Detroit, Mich., for $7,153.

*SCOTLAND, CONN.—Bids are asked until March 2 by the Uncas Power Co., at Norwich, Conn., for the completion of the power house above foundation, now in place, also building a reinforced-concrete dam on earth bottom about 200 ft. in length and for a 25-ft. head located on the Shetucket River at Scotland, Conn., on the New York, New Haven & Hartford R. R. C. W. Comstock, Shetucket Bldg., Norwich, is Pres.

ALBANY, N. Y.—The GENERAL ELECTRIC CO., of Schenectady, has secured the contract to install an electric system at the bridge of the Albany & Greenbush Bridge Co., consisting of one 50-HP. power motor, one 20-HP. and four 1-HP. motors, in addition to four submarine cables.

WATERLOO, N. Y.—The Village Board has awarded the contract for lighting the streets of Waterloo to the GENEVA-SENECA ELECTRIC CO., Geneva, N. Y., for a term of five years. The contract will take effect May 1, 1908, and provides for 28 arc lamps at $70 each a year, and 113 incandescent lamps at $18 per lamp per year. The company will install new lamps and apparatus, work on which will begin at once and is to be completed not later than May 1. F. C. Blintyon, New York, is Mgr.; J. E. Sliney, Geneva, is Ch. Engr.

TONAWANDA N. Y.—The Common Council has awarded the contract for the furnishing of power for the new water-works station at Tonawanda to the TONAWANDA LIGHT & POWER CO. The contract is for five years, and the price is based on the amount of water pumped. It will cost about $6,000 a year. F. M. Gordon, North Tonawanda, N. Y., is Mgr.

TRENTON, N. J.—The contract for furnishing electricity for lighting the State House has been awarded to the PUBLIC SERVICE CORPORATION, Dudley Farrand, Newark, N. J., Gen. Mgr.

WILMINGTON, DEL.—No bids were received by the Street and Sewer Department Jan. 28 for lighting the streets of the city by electricity, and only one bid was received for gas lighting. The time for receiving the bids has been extended to March 31, and the existing gas and electric contracts were extended from July 1 to Sept. 1. The specifications call for electrical energy for not less than 350 arc lamps and 428 incandescent lamps. The new contract is for a term of five years beginning Sept. 1. Howard B. Griffith is City Engr.

HYATTSVILLE, MD.—The Washington Spa Springs & Gretta Electric Ry. Co., B. J. Stephens, Hyattsville, Md., Pres., will erect power-house at Beverly, it is stated. Charles D. Eldridge, Myersville, Md., is Engr.

BALTIMORE, MD.—See under Buildings.

ANNAPOLIS, MD.—Bids are asked until noon, Feb. 21, by the Navy Department, Washington, D. C., for constructing a power-house at the U. S. Naval Academy, Annapolis. Ernest Flagg, 35 Wall St., New York, N. Y., is Arch. V. W. Metcalf is Secy. of the Navy, Washington.

WASHINGTON, D. C.—Bids are asked until April 6 by Thomas J. Sullivan, Dir., Bureau of Engraving and Printing, Treasury Dept., Washington, for furnishing electrical supplies during the fiscal year beginning July 1, 1908.

Bids are asked until Feb. 25 at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., to furnish at the navy yards and naval stations the following supplies: Mare Island, Cal.: Schedule 765—Two-power factor meters, ammeters, volt and watt meters, automatic starting panels, 100 condenser plates, six starting dynamos. Schedule 769—Sheet brass, 8,500 lbs.; sheet copper, seamless drawn copper pipe, 2,880 lbs.; metal tubing, 50,000 lbs.; rolled zinc. Puget Sound, Wash.: Schedule 765—Conduits, steel, etc.; 2,010 lbs. magnet wire, 3,000 ft. cable for interior communications. Schedule 767—Seamless drawn brass pipe and voice tubing. E. B. Rogers is Paymaster Gen., U. S. N.

WASHINGTON, D. C.—Bids were received as follows Feb. 15 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for electric conduit in the new Senate office building. Washington: Western Electric Co., 57 Bethune St., New York, $3,735; Southern Electric Co., 423 North Calvert St., Baltimore, $4,145; International Electric Co., 148 Chambers St., New York, unit prices only, not totalled; National Electric Supply Co., 1330 New York Ave., Washington, $3,725.

NATIONAL SOLDIERS' HOME, VA.—Bids are asked by John T. Hume, Treas., Southern Branch, N. H. D. V. S., National Soldiers' Home, Elizabeth City County, Va., until 1.30 p. m., March 2, for furnishing all material and labor for installing complete two electric motors, one in main laundry and one in bakery.

Bids are also asked until 1.30 p. m., Feb. 21, 1908, for all material and labor for remodelling electric wiring in pavilion and theater.

SUTTON, W. VA.—The Council has awarded contract to the SUTTON ELECTRIC LIGHT, POWER & WATER CO. of this place to furnish the town with electric light and water for a period of 25 years at the following rates: $75 each, a year for the first twelve lights; $60 each for the succeeding ten, and $50 each for all above the first 22 lights. For water, the town agrees to pay $25 a year for each hydrant. The contract gives the town the privilege of purchasing the entire plant at the expiration of 25 years.

JACKSONVILLE, FLA.—[illegible]he Board of Bond Trustees has approved [illegible] recommendations of R. N. Ellis, Supt., [illegible] changes in the machinery in the mun[illegible] electric light plant, which recommend[illegible]tensions and alterations at the municip[illegible]wer plant.

SOUTH PITTSBURG, [illegible]ENN.—Additions and improvements are [illegible]mplated by the new South Pittsburg Li[illegible] Power Co., including the installation o[illegible] 3-phase 60-cycle 2,300-volt system and [illegible]ding its transmission lines to Bedfor[illegible]penhagen and Bridgeport. C. A. Sutliff [illegible]wner and Mgr. This item was erroneous[illegible]ported in issue of Feb. 6, under Pittsbu[illegible] Pa.

LOUISVILLE, KY.—Th[illegible]uisville Lighting Co. has decided to ex[illegible] about $1,500,000 for improvements, it [illegible] stated. A. M. Worthington, Louisville, [illegible] Mgr.

ROSEVILLE, OHIO.—T[illegible] directors of the Devonshire Brick & Cer[illegible] Co. have decided to erect an electri[illegible]hting plant in this town at a cost of $60[illegible] W. A. Shoemaker is Secy. and Mgr. [illegible] company.

ROCKY RIVER, OHIO[illegible] Rocky River Water, Light & Power C[illegible] which supplies the town with water, is [illegible]templating installing generators in its [illegible] to furnish electricity for lighting the [illegible] it is stated.

NOBLESVILLE, IND.—[illegible] are asked by the Noblesville Gas & Im[illegible]ment Co. for extension of its pipe lines [illegible] also for erection of an artificial gas p[illegible] the latter to cost about $75,000. C. R. [illegible] is Pres.

INDIANAPOLIS, IND.—[illegible] are officially advised that the State Boar[illegible] of Agriculture, Charles Dowing, Secy., [illegible] 12, State House, will receive bids for [illegible] erection and equipment of an independ[illegible] electric light plant on the State Fair Gr[illegible], Indianapolis, to be operated by st[illegible]. Estimated cost, $28,000. Rubush & H[illegible]ter, Farmers' Trust Bldg., Indianapolis, are Archs.

WATERLOO, WIS.—Bids [illegible] asked until Feb. 25, by F. E. Peschel, Village Clk., for a 2-piece c.-i. engine fly wheel for belt drive, about 12,000 lbs.; also a steel stack, 42 ins. in diameter and about 81¼ ft. high, together with the breeching to boiler.

MADISON, WIS.—The Capitol Commission has awarded contract for dyn[illegible] and other electric equipment for heat and lighting plant for new State Capitol to the NORTHERN ELECTRIC CO., of Madison, at about $42,000., and the contract for boilers to the BABCOCK & WILCOX CO., 85 Liberty St., New York, through its office at 204 Dearborn St., Chicago, Ill.

SHEBOYGAN FALLS, WIS.—Bids are asked by the President and Village Trustees until 7.30 p. m., March 16, for establishment, maintenance and operation of an electric light plant and system for a term of 25 years, commencing March 8, 1908.

HUNTLEY, MONT.—An extension of time to May 2, 1908, has been granted to the Camden Iron Works, Line St., Camden, for the completion of their contract to furnish machinery for the power plant, Huntley irrigation project, Mont.

MARBLE FALLS, TEX.—The Houston "Post" states that a dam is to be constructed across the Colorado River, under plans drawn by John W. Maxcy, Houston, Engr. for the Granite Mfg. Co., of which G. W. Voires is Mgr. The company is incorporated for $300,000, and the dam which is to be built is to provide 12,000 HP. for use at Marble Falls and for the transmission of electric power to San Antonio, a distance of about 150 miles. The new work is to be of reinforced concrete and will fill the crevasses in the natural dam already in existence, and add ten feet to the elevation. The height of the mass of masonry will range from ten to 18 ft., the dip on the south side of the river making higher construction there necessary. The thrust of the water will strike the upper concave surface of the dam at exact right angles as it is to be at right angles with the main current. The total height of the capped dam will be 36 ft. Its length will be 1,400 ft. Its general form will be like the hollow culverts in use on railroads, the interior of the tunnel being substantial framework of steel. The steel will be secured in the adamantine ledge of rock popularly designated black marble by sinking and anchoring.

BRUSH, COLO.—The Brush Electric Light, Fuel & Power Co. proposes to construct a plant of 300-KW. capacity in two units direct connected.

BREMERTON, WASH.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., will soon issue a specification covering the installation at the Puget Sound Navy Yard, Bremerton, of two 450-HP. high-pressure water-tube boilers, with superheating attachment. The boilers are to be set in one battery and designed for using oil as fuel. The superheaters are to be of approved construction entirely separate from the boiler tubes proper, and shall have a capacity to add 100 degrees to the steam generated when the boilers are operating at rated capacity and at a steam pressure of 200 lbs. The stack is to be not less than 175 ft. high and have an internal diameter not less than nine feet inside of the brick lining. The specification will be ready for distribution in about 30 days. Five months will be allowed for the completion of the work after the contract is made. The estimated cost of the work is $34,000.

SEATTLE, WASH.—The Pacific Coast Power Co., with the Seattle Electric Co., has purchased the lands held upon the White River by the Seattle-Tacoma Power Co. According to a statement made by Jacob Furth, Pres. of the Seattle Electric Co., the Pacific Coast Power Co. will develop 100,000-HP. immediately at a plant to be erected on the White River. This power will be used to supplement Seattle power and will also be used in Tacoma. H. F. Gra[illegible], Seattle, is Mgr.

PROSSER, WASH.—We are officially advised that the Prosser Falls Land & Power Co., Prosser, will construct a power plant to be operated by water. A power canal to be two miles long has been over half completed.

A dam across the Yakima River, 770 ft. long and from six to eight feet high has been completed. Contracts will be let before April 1 for two 250 K.W. dynamos, to be driven by separate horizontal turbine water-wheels, two miles of transmission line to reach the present plant. E. F. Benson is Pres. and Mgr. No engineer has been employed as yet for this project.

WALLOWA, ORE.—The City Council has passed an ordinance granting the Wallowa Mercantile Co. a franchise to erect and maintain an electric light and power plant in this city.

DINUBA, CAL.—The San Joaquin Light & Power Co. completes extending its transmission lines from Dinuba to the Stone Corral country, a distance of about 21 miles. The sub-station will be located near the Decker Place, about 16 miles from Dinuba. A. G. Wishon is Mgr.

WILLOWS, CAL.—The Northern California Power Co. is figuring the cost of running its wires to a 400-acre tract of land near Willows. Electricity is to be furnished by the company to purchasers of lots on this tract so that pumps can be installed to irrigate the land. The power company is also figuring on furnishing power to five small tracts north of Willows, with which to run the pumping plants that are to be installed. E. V. D. Johnson, Redding, Cal., is Mgr.

SAUSALITO, CAL.—It is stated that Robert P. Geer and associates intend to build a gas plant here to supply the city. Plans are nearly completed.

RENO, NEV.—The North Yuba Electric Light & Power Co., recently incorporated, proposes to construct and operate a power plant near the North Yuba River and to furnish electrical energy for lamps and motors in different cities and towns in California and Nevada. The capital stock of the company is placed at $1,000,000.

PORT ARTHUR, ONT.—The work of surveying Dog Lake Falls for the proposed power development is complete. The transmission line will be 23½ miles in length. James McTeigue, Port Arthur, is Town Clerk, Port Arthur; Cecil B. Smith, Toronto, Ont., is Engr.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

*HARTFORD, CONN.—Bids are asked until noon, Feb. 26, by the Connecticut River Bridge and Highway District for furnishing and erecting in place the tunnel roof beams, in connection with the western approach to the Connecticut River bridge at Hartford. Morgan G. Bulkeley is Pres. John T. Henderson is Deputy Ch. Engr.

FREEHOLD, N. J.—The following bids for improving the Oceanic bridge were opened on Feb. 13 by the Board of Chosen Freeholders, Monmouth County: (a) yellow pine planking and steel stringers, (b) oak, instead of pine, (c) oak or pine in place of steel stringers: Lewis M. Foster, Atlantic Highlands, N. J., (a) $23,237, (b) $19,907; Monmouth Contracting Co., Atlantic Highlands, N. J., (a) $22,700, (b) $24,400, (c) $16,755; Owen J. Maice, Long Branch, N. J., (a) $18,000, (c) $12,774; John Youmans, Oceanic, N. J., (a) $15,800, (b) $17,500, (c) $14,500; Ambrose Matthews, Red Bank, N. J., (a) $19,370, (c) $14,210; F. M. Stillman, Jersey City, N. J., (a) $24,240, (b) $26,500, (c) $18,100; Dean Schwiers & Sutton Co., 136 Liberty St., New York, (a) $19,550, (b) $21,155, (c) $15,440; General Construction & Engineering Co., New York, (a) $21,145, (b) $22,263, (c) $15,364; C. W. Dean & Co., 136 Liberty St., New York, (a) $15,274, (b) $16,483, (c) $10,994; B. A. Van Brunt, Sea Bright, N. J., (a) $19,933.40, (c) $14,400.

SCRANTON, PA.—Bids are asked until 11 a. m., Feb. 24, by C. R. Acker, Dir. Pub. Wks., for the erection of a temporary bridge over the Lackawanna River.

WAYNESBURG, PA.—The contract for the construction of a concrete bridge in Franklin Township, near this city, has been awarded to REITSCH BROS., Washington, Pa.

WILKES-BARRE, PA.—Bids are asked by James M. Norris, County Controller, until Feb. 25, for repairing substructure and superstructure of steel truss bridge over Harvey's Lake, Luzerne County.

SYBERTSVILLE, PA. — THE PENN BRIDGE CO., Beaver Falls, Pa., was awarded the contract, on Feb. 11, by Samuel B. Ramho, Supt. Public Grounds and Buildings, Harrisburg, Pa., for the construction of a steel bridge across Nescopech Creek.

NEWCASTLE, PA.—The appropriation made this year provides the sum of $25,000 to be used this summer in the erection of a new bridge over the Neshannock River, and for which bids will be asked in the spring.

WILKES-BARRE, PA.—Herman Laub, Pittsburg, Pa., has been engaged to prepare plans for the construction of a state bridge to be erected in Luzerne County.

SAVANNAH, GA.—All bids for the construction of a steel bridge over the Great Ogeechee River at King's Ferry were rejected on Feb. 3 by the County Commissioners. S. Reuben Butler is Clk. Comrs.

GREENVILLE, MISS.—Bids are asked by W. W. Miller, Clk. Bd. of Supervisors, Washington County, until noon, March 2, for the construction of a bridge across Little Deer Creek.

WASHINGTON, LA. — THE MISSOURI VALLEY BRIDGE & IRON CO., Dallas, Tex., has been awarded the contract by the Police Jury for the construction or a steel bridge over Bayou Canon, near here.

NEW ORLEANS, LA.—We are officially advised that the UNION BRIDGE & CONSTRUCTION CO., 606 New Nelson Bldg., Kansas City, Mo., has been awarded the contract for building 14,000 lin. ft. of permanent trestle for the Colorado Southern, New Orleans & Pacific R. R. Co. on their line east of the place where it crosses the Atchafalaya River in Louisiana. B. B. Gordon, Beaumont, La., is Ch. Engr. Colorado Southern, New Orleans & Pacific R. R. Co.

The LONG-BELL LUMBER CO., Keith & Perry Bldg., Kansas City, Mo., was awarded the contract, on Feb. 6, by the Union Bridge & Construction Co., for 1,500,000 ft. bridge timbers and 4,200 piles, to be used in the above work.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., March 14, by the Board of County Commissioners for the construction of a steel concrete bridge in Euclid Township. William F. Black is Clk. Bd.

The following are the bids received on Feb. 10 by the Board of Public Works for constructing the superstructure of a bridge on Clark Ave., southwest, over the Baltimore & Ohio R. R.; about 1,380 tons of steel and iron to be used: Riter & Conley Mfg. Co., 55 Water St., Pittsburg, Pa., $107,364; Strobel Steel Construction Co., 1744 Monadnock Bldg., Chicago, Ill., $99,360; Toledo-Massillon Bridge Co., Toledo, Ohio, $99,332; Pennsylvania Steel Co., 305 Western Union Bldg., Chicago, Ill., $105,708; Van Dorn Iron Works, Cleveland, $96,402; King Bridge Co., Cleveland, $95,565; Interstate Engineering Co., Cleveland, $103,362; McClintic-Marshall Construction Co., Pittsburg, Pa., $104,604; American Bridge Co., N. Y. City, $91,080; Cowing Engineering Co., Cleveland, $114,462. A. R. Callow is Secy. Bd.

TROY, OHIO.—WYNKOOP & McGORMLEY, Toledo, Ohio, were awarded the contract on Feb. 4 by the city for the construction of bridge over the canal on Water St.

PIQUA, OHIO.—The contract for the construction of a bridge over the canal on High St. was awarded on Feb. 4 to WYNKOOP & McGORMLEY, Toledo, Ohio.

TOLEDO, OHIO.—Bids are asked by the County Auditor, Lucas County, until 10 a. m., Feb. 21, for the construction of two concrete masonry abutments for bridge over Ten Mile Creek (Ottawa River), on Ottawa Terrace, Washington Township. L. B. Bailey is Chn. County Comrs.

WEST POINT (Lisbon post-office), OHIO.—Bids are asked by the Board of County Commissioners of Columbiana County until 1 p. m., Feb. 29, for the construction of a reinforced-concrete arch bridge, at West Point; also bids will be received until the same date for a reinforced-concrete, through-girder bridge, with stone masonry piers. R. G. Boyd is chn. County Comrs.

CANAL DOVER, OHIO.—Bids are asked by the Commissioners, Tuscarawas County, until 1 p. m., March 2, for repairs to steel bridge on Wooster St. A. V. Denahey is County Audr.

BALTIC, OHIO.—Bids are asked by the Commissioners, Tuscarawas County, until 1 p. m., March 2, for the construction of the superstructure for a concrete bridge here. A. V. Denahey is County Audr.

CLEVELAND, OHIO.—Bids are asked by the Board of Commissioners of Cuyahoga County until 11 a. m., March 7, for concrete abutment, Newburg Township, and steel concrete culvert, Mayfield Township. William F. Black is Clk. Bd.

BLUFFTON, IND.—The Cincinnati, Bluffton & Chicago R. R. Co. will have a bridge constructed across the Wabash River near here. J. C. Curtis, Huntington, Ind., is Gen. Mgr.

GOSHEN, IND.—Bids will soon be asked by the Commissioners of Elkhart County for the construction of a bridge over Pine River.

ST. JOSEPH, MICH.—A committee representing the municipalities of St. Joseph and Benton Harbor has engaged James W. Pearl, Benton Harbor, to prepare plans and specifications for the construction of a 32-ft. swing bridge, to connect the highways of St. Joseph and Benton Harbor; as soon as the plans, etc., are ready they will be submitted to both Councils, after which bids will be asked.

SUPERIOR, WIS.—Plans are being prepared for the erection of a bridge over the St. Louis River by the Interstate Transfer Co.

MILWAUKEE, WIS.—F. W. Moore has completed the plans for the north end of the 27th St. viaduct and has submitted them to the Board of Public Works.

DULUTH, MINN.—The United States Steel Co. contemplates having a bridge constructed across the St. Louis River connecting Minnesota and Wisconsin at the site of the Spirit Lake steel plant; plans have been sent to Washington for approval.

WESTMORELAND, KAN.—Bids are asked by the Township Board of Pottawatomie Township, at Surveyor's office, Westmoreland, until Feb. 29, for the construction of a 24-ft. stone arch bridge across Hopkins Creek, nine miles southwest of Westmoreland. Alois Unscheid is Trustee.

TROY, MO.—We are officially advised that the JOLIET BRIDGE & IRON CO., Joliet, Ill., was awarded the contract by the Lincoln County Commissioners for the construction of a steel bridge for Lincoln and St. Charles counties, at $6,471. James M. McLellan is Deputy County Clk.

CHICO, CAL.—M. C. Folk, City and County Engr., has prepared plans and specifications for a reinforced-concrete bridge over Little Chico Creek on the Dayton road, to replace the present wooden one. Estimated cost, $6,000.

MARYSVILLE, CAL.—THE WESTERN BRIDGE CO. has been awarded the contract by the Board Supervisors for the construction of the Honcut bridge.

SAN DIEGO, CAL.—The BURRELL BRIDGE & CONSTRUCTION CO. was awarded the contract on Feb. 5 by the Board of Supervisors for the construction of the Mission bridge, at $9,440.

LOS ANGELES, CAL.—THE MERCEREAU BRIDGE CO. has been awarded the contract for the construction of a 50-ft. bridge in Telegraph road, in the Downey and Los Nietos districts.

LOS ANGELES, CAL.—Bids are asked by the Board of Supervisors, Los Angeles County, until 2 p. m., March 2, for the construction of a 400-ft. pile trestle bridge across the Los Angeles River near Hobart in the Fruitland road district. C. G. Keyes is County Clk.

WALLACE, IDAHO.—The County Commissioners have awarded contract to ADAM COETTGE for construction of a new bridge across the Coeur d'Alene River at a point where the Wallace-Wardner road crosses the stream near the New Jersey mill.

MALLORYTOWN, ONT.—Bids are asked until Feb. 29 by M. J. Connolly, Clk., Front of Yonge, Mallorytown, for constructing a bridge across Jones Creek at or near site of the present bridge.

NEWBURG, ONT.—Bids are asked until Feb. 29 for plans, specifications and tenders for the erection of a steel bridge, with stone or cement abutments or an arch stone or cement (reinforced with steel) bridge-span about 60 ft. B. G. Hamm is Chn. of Roads and Bridges, Odessa, Ont.

DUNREA, MAN.—Bids are asked by J. H. Putnam, Secy.-Treas., until noon, March 10, for the construction of a steel bridge with concrete abutments across the Souris River. The bridge will consist of two spans of 100 ft. each.

REGINA, SASK.—Plans and specifications for a reinforced concrete arch bridge and dam on Albert St., Regina, across Wascana creek are on file at the office of Engineering News, New York. Bids are asked until 4.30 p. m., Feb. 24. F. J. Robinson is Deputy Comr. Pub. Wks.

VANCOUVER, B. C.—J. A. L. Waddell, Kansas City, Mo., has been retained to prepare plans for the civic bridges to be erected this spring at a cost of $1,000,000.

*MONTEREY, N. L., MEX.—The date for the opening of bids for the construction of the superstructure of bridge over Santa Catarina River, at Monterey, has been extended from Feb 15 to March 1. Details of work required noted Feb. 6.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—The general contract for the Hospital for Consumptives has been awarded to B. FRANK CARROLL, 217 Walnut St., Brookline, and MICHAEL D. MEALEY, 114 Chestnut St., Brookline, will do the carpenter work. Maginnis, Walsh & Sullivan, Archs., 100 Boylston St., Boston, prepared the plans; French & Hubbard, Albany Bldg., are Heating and Ventilating Engrs. The building will be constructed of stone, concrete and terra cotta and will cost $150,000.

AMHERST, MASS.—The contract to build a Biological and Geological Laboratory for the Amherst College has been awarded to HORTON & HEMENWAY, 683 Atlantic Ave., Boston, at $100,000. Plans were prepared by McKim, Meade & White, 160 Fifth Ave., New York, N. Y.

SOUTH HADLEY, MASS.—Plans are nearly completed for the erection of two new buildings at Mount Holyoke College, at a total cost of about $100,000. The proposed structures are to consist of a music building and a residence for the president of the college. Miss Mary E. Woolley.

SOMERVILLE, MASS.—Gay & Proctor, Archs., 21 Bromfield St., Boston, have prepared plans for a building for the Somerville National Bank, Somerville, to cost $50,000.

PROVIDENCE, R. I.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded to the PORTLAND CO., Portland, Me., contract for the installation of an elevator in the Providence post-office, at $7,805.

RIDGEFIELD, CONN.—It is stated that Wilson Eyre, 35 West 21st St., New York, has prepared preliminary plans for a 3½-story residence and garage at Ridgefield, for Melbert B. Cary, to cost $100,000.

LAKE GEORGE, N. Y.—We are advised by Harney & Purdy, 320 Fifth Ave., New York, that they have let general contract to CALLANAN BROS., Keeseville, N. Y., for a 5-story addition to the Ft. William Henry Hotel, at Lake George, for the Delaware & Hudson Co. It will cost about $70,000.

BUFFALO, N. Y.—An office building is to be erected on the site of the Gruener Hotel, Genesee, Huron and Washington Sts., and will be owned by the Buffalo General Electric Co., Fidelity Bldg. Charles R. Huntley is Pres. and Gen. Mgr. The price paid for the hotel property was between $90,000 and $95,000. The new building will be used for offices and salesrooms by the Buffalo General Electric Co. and the Cataract Power & Conduit Co.

ASTORIA (L. I.), N. Y.—We are officially advised that H. Horenburger, 682 East 159th St., New York, is preparing plans for a Masonic Temple to be six stories high and to be erected at Astoria. Cost, $180,000.

NEW YORK, N. Y.—The T. J. REILLY CO., 353 Fifth Ave., advises us that it has the general contract to erect a 4-story brick and stone school building for the St. Anselm's Roman Catholic Congregation. Cost about $90,000. John E. Kerby, 481 Fifth Ave., is Arch.

NEW YORK, N. Y.—Plans have been filed by George W. Conable, 15 Myrtle Ave., Jamaica, L. I., for a 2-story brick and stone church and parsonage to be built on 100th St., 90 ft. east of Amsterdam Ave., for the German Evangelical Lutheran Church, 164 West 100th St. The building will be 60 × 99 ft. and will cost about $50,000.

We are officially advised that MARC EIDLITZ & SON, 489 Fifth Ave., have the general contract to construct the proposed theatre, to be known as the New Theatre, which will be erected at Central Park West, between 62d and 63d Sts. The building will be constructed of brick, stone, terra cotta and reinforced concrete. The carpenter contract has not been let. Cost, $1,750,000.

ALBANY, N. Y.—Palmer & Hornbostel, Archs., 63 William St., New York, advise us that bids for constructing a building at Albany for the State Board of Regents probably will be received about April 1. Bids will be advertised for about March 1. The building will be four stories high and will cost about $3,500,000. Estimates will be taken on various materials for construction.

TROY, N. Y.—JAMES STEWART & CO., 135 Broadway, New York, advise us that they have the general contract to construct a 3 and 5-story mechanical and electrical laboratory for the Rensselaer Polytechnic Institute, Troy. Sub-contracts are being let. Cost of building, $300,000. The installation of equipment will be under the direction of the officials of the Institute. Palmer C. Ricketts, C. E., is Pres.

OSWEGO, N. Y.—Charles H. Snyder, City Engr., advises us that bids are asked for 200 sq. ft. slate steps, 200 sq. ft. wainscoting and 1,150 sq. ft. tile glossing for the City Hall entrance.

JERSEY CITY, N. J.—We are officially informed that Louis Dananchet, Glenmore Ave., Brooklyn, N. Y., is planning six brick, 3-story and 17 frame, 2-story houses to be constructed at the corner of Ocean and Bidwell Aves., Jersey City, for M. S. Nieman, 569 Bainbridge St., Brooklyn. Total cost, $97,000.

NEWARK, N. J.—Kitchell & O'Rourke, Archs., 738 Broad St., Newark, have let mason contract to R. W. PATRICK, 57 Hallock St.; carpenter work to JOHN CALLAN, 70 South Eleventh St., and plumbing to JAMES B. GILL & CO., 319 Warren St., for a 3-story brick and limestone parochial school building, 60 × 120 ft., at Orange and Gray Sts., for the St. Rose of Lima Parish, Rev. Jas. J. McKeever, Pastor. Cost, $80,000.

CAMDEN, N. J.—Plans will be prepared by H. G. Morse, 11 East 24th St., New York, and J. G. Jeffries, 1001 Chestnut St., Philadelphia, Associate Archs., for a 4 or 5-story building for the Y. M. C. A., T. E. Lute, Secy., Camden, N. J. Brick, stone and terra cotta will be material used in construction, with slag roof, open plumbing, tile and marble work, plate and leaded glass, electric fixtures and steam heat. Cost, $250,000.

*SANDY HOOK, N. J.—Bids are asked until 2 p. m., March 19, by M. N. Falls, Constr. Q. M., for constructing plumbing, heating and wiring one double or two single sets of barracks at this post.

INDIANA, PA.—C. C. & A. L. Thayer, Archs., Lawrence Savings & Trust Bldg., New Castle, Pa., are preparing plans for a 2-story and basement 16-room school building, 98 × 143 ft., for the Board of Education, E. M. Lockard, Pres., Indiana, Pa. The building will be constructed of press brick, with stone trimmings, galvanized iron cornice and skylight, structural and ornamental iron, slate roof, hardwood finish, tile floors in corridors and vestibule, gas and electric fixtures. Bids will be received by the Board after Feb. 15.

CONNELLSVILLE, PA.—McCollum & Dowler, Archs., Berger Bldg., Pittsburg, Pa., have prepared plans, and bids will be asked for within a few weeks for an 8-story steel, brick and concrete fireproof business block to be built at West Main and Pittsburg Sts. for the Second National Bank. The building will have high speed elevators, will contain 70 offices and will have complete steam and electric power plants. It will cover a ground plan 22 × 165 ft.

UNIONTOWN, PA.—Competitive plans will be received by the School Board until Feb. 24 for an 8-room ward school building. William McClelland is Secy.

BALTIMORE, MD.—Howard Hansel Tunis, Consult. Engr., Baltimore, writes us that he is preparing plans for a suburban development near Baltimore, consisting of apartment houses to accommodate about 1,000 persons; hotel, with accommodations for 500 guests, power plant with facilities for electric lighting, heating, gas making, ice making, steam laundry, and ventilation; also, artesian wells for water supply.

BALTIMORE, MD.—The Hotel Caswell, Baltimore and Hanover Sts., has been leased by the Union Hotel Co., William B. Hurst, 39 Hopkins Pl., Pres., and a 4-story addition, 22 × 150.6 ft., will be erected. It will contain 80 rooms, porcelain bath tubs, lavatories, electric wiring, etc., and will cost $75,000. C. R. Wattenscheidt, Fidelity Bldg., is attorney for Caswell Hotel Co., owner.

*FORT MONROE, VA.—Bids are asked until noon, March 16, by Capt. Ernest R. Tilton, Constr. Q. M., for construction of one ordnance store house and the reconstruction of three double brick buildings, including construction, heating, plumbing and electric wiring, at Fort Monroe, Va.

PORTSMOUTH, VA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has rejected all bids recently received for the construction of a post-office building at Portsmouth, Va., and will readvertise for bids.

RICHMOND, VA.—The High School building, contract for which was recently noted awarded to A. C. BEDFORD, will be 4-story structure, 208 × 190 ft., with hot-water heating, ventilating system, electric and gas lighting, electric elevators and electric clocks. Cost, $346,963.

WHEELING, W. VA.—Competitive plans will be received by the Board of Education for a school building, at 17th and Jacob Sts. The ground is 198 × 126.10 ft. Building is to contain twelve class rooms, with capacity for forty pupils each. There will be a grammar room with stage, capacity, seat 80; one class room for German, one office for principal, one store room for apparatus and supplies, one small room for teachers' rest room, small toilet in connection with principal's office and also teachers' rest room, inside cloak room with each school room, with two entrances to each. Rooms must be lighted on two sides—not opposite. Hallways are to be roomy and stairways wide; sketches to be submitted at ¼-in. scale. Cost limit, $60,000.

BLUEFIELDS, W. VA.—Bids were received as follows Feb. 14 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction of the

post-office building at Bluefields, W. Va.: W. W. Seay & Son, Bluefields, W. Va., $92,249; J. E. & A. J. Pennock, Land Title Bldg., Philadelphia, $98,400; David M. Andrew Co., Light and Balderston Sts., Baltimore, $108,060; Gindele Bros. & Co., Chicago, $94,985, 21 months; Holiday & Crown, Greensboro, N. C., $78,900; Jones & Adams, Lynchburg, $82,279; D. J. Phipps, Newport News, Va., $79,917, 15 months; Alfred Struck Co., Louisville, Ky., $91,250; Rossi-Litz Co., North Fork, W. Va., $91,650. Time to complete, July 1, 1909.

ASHEVILLE, N. C.—DAVID GETAS & SONS, Knoxville, Tenn., have contract at about $56,300 for erection of addition and improvement of U. S. post-office and court-house at Asheville. Red pressed brick, with red sandstone trimmings will be used for construction. Appropriation, $65,000. James Knox Taylor, Treasury Dept., Washington, D. C., is Superv. Arch.

ATLANTA, GA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded to CHARLES McCAUL CO., Tenth and Sansom Sts., Philadelphia, at $799,130, contract for the construction of the superstructure to the Atlanta post-office; time of construction, March 1, 1910.

BIRMINGHAM, ALA.—E. C. Bowman, Winston-Salem, N. C., contemplates beginning construction of apartment house in April to have five stories and to be 80 × 100 ft., fireproof, with steam heat, electric lighting, electric elevators. Cost, $100,000. The owner's present address is Box 803, Birmingham, Ala. Plans were prepared by Hook & Rogers, Trust Bldg., Charlotte, N. C.

MEMPHIS, TENN.—Bids are asked by the Y. M. C. A. until about March 14 for erection of building recently mentioned and described. Plans are by J. Gaisford, 478 Randolph Bldg. The structure will be seven stories, 90 × 149 ft., fireproof, with steam and fan heating, electric lighting plant, and electric elevator. Cost, $162,000.

CHATTANOOGA, TENN.—Bids were received Feb. 11 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Wash., D. C., for the construction of an extension to the post-office building at Chattanooga, Tenn.: George Moore & Sons, Nashville, Tenn, $98,630; Alfred Struck & Co., Inc., Louisville, Ky., $107,000, May 1, 1909; Gude & Son, Atlanta, Ga., $111,600, 14 months; H. A. Bishop, Chicago, $98,000; Joseph Trimby, Chattanooga, Tenn., $99,826; Cecil L Saunders, Cleveland, Ohio, $93,280, 22 months; George B. Hinman, Atlanta, Ga., $95,573. Time to complete, May 1, 1909.

CINCINNATI, OHIO.—Bids are asked by the Board of Education until noon, March 2, for the construction of annexes to the following school buildings: 16th District, Southern, near Young; 18th District, Hopple and Terrace, and for the excavation and foundations for the Woodward High School, Woodward and Sycamore Sts., Cincinnati. Dr. J. M. Withrow is Chn. Bldg. Com.

DELAWARE, OHIO.—Bids are asked by the Board of Trustees of the Girls' Industrial Home, at the office of Marriott & Allen, Archs., Hayden-Clinton Bank Bldg., Columbus, Ohio, until noon, March 17, for the erection of a brick hospital, on building site designated by the Board of Trustees, at the Girls' Industrial Home, Delaware County, Delaware. T. F. Dye is Secy.

YOUNGSTOWN, OHIO.—A total of 25 bids were received here on Feb. 8 for erection of the new Mahoning County court-house. The lowest bid was made by John Gill & Son, of Cleveland, who will probably be awarded the contract at their bid of $794,000. The estimated cost of the building according to the architect's figures was $920,000.

CLEVELAND, OHIO.—Richards, McCarty & Bulford, Archs., The Ruggery, Columbus, Ohio, have awarded contract to SAMUEL E. ESSWEIN CO., Columbus, Ohio, for heating and plumbing in the $300,000 wholesale house, which Eldridge-Higgins Co., Columbus, is erecing at Cleveland.

WARRENSVILLE, OHIO.—J. Milton Dyer & F. G. Bates, 825 Cuyahoga Bldg., Cleveland, Ohio, will prepare plans for a work-house to be erected at Warrensville, for the Board of Public Service, H. R. Cooley, Dir., City Hall. The City Council has authorized the expenditure of $125,000 for the purpose. Total cost, $250,000.

INDIANAPOLIS, IND.—The Indianapolis Jewish Club will receive bids for the erection of a club-house on Meridian St. 76 × 80 ft., three stories high. Estimated cost, $65,000. Vonegut & Bohn, Indiana Trust Bldg., are Archs. A. M. Rosenthal is Chn. Bldg. Com.

INDIANAPOLIS, IND.—George W. Brown has awarded a contract to BRANDT BROS., 16th and Pennsylvania Sts., for the erection and equipment of a combination business and apartment house at the corner of Alabama and New York Sts.

LA FAYETTE, IND.—The Building Committee of the New Memorial Gymnasium for Purdue University has accepted the plans of L. P. Daggett, Arch., Marion Block, Indianapolis, and bids will be received after March 1. The new gymnasium will be 80 × 165 ft., with a swimming pool 30 × 60 ft. Estimated cost, $75,000.

GRAND RAPIDS, MICH.—Bids are asked until 3 p. m., March 24, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction of U. S. post-office, excepting elevators, at Grand Rapids.

CHICAGO, ILL.—Holabird & Roche, 100 Jackson Boulevard, are preparing plans for a mercantile building, at 340 Fifth Ave., for M. Born & Co., Moses Born, Pres.; William A. Kirchberger, Secy., Franklin St., corner Lomax Pl.; twelve stories high, 63 × 120 ft., of press brick, with stone trimmings and fire-proof construction, gravel roof, structural and ornamental iron, plate glass, gas and electric fixtures. Cost, $200,000.

Huehl & Schmid, Archs., 163 Randolph St., have let carpenter contract to ARCHIBALD M. CAMPBELL, 217 La Salle St., for constructing a 10-story brick, steel and concrete mercantile building, 60 × 100 ft., at 286-290 Fifth Ave., for Washington Porter, 77 Jackson Boulevard. Cost, $150,000.

ST. PAUL, MINN.—GEORGE J. GRANT, New York Life Bldg., has the general contract for a 2-story granite, brick and concrete office building, 100 × 110 ft., for the St. Paul Fire & Marine Insurance Co. Cost, $150,000. Work will start in the spring.

ROCHESTER, MINN.—The State Board of Control, St. Paul, Minn., P. M. Ringdahl, Chn., has awarded the contract for the general construction of the pressed brick and cut stone 2-story fireproof nurses' dormitory to be built here, to J. B. NELSON & CO., Mankato, Minn. Their bid was $43,772.

MOORHEAD, MINN.—The State Board of Control, P. M. Ringdahl, Chn., St. Paul, Minn., has awarded the contract for the construction of a 3-story pressed brick and cut stone model school building here for the State Normal School, to FRIEDLAND BROS., Moorhead, at $46,500. C. H. Johnston, 712 Manhattan Bldg., St. Paul, Minn., is Arch.

MADISON, MINN.—The general contract for the construction of the 3-story pressed brick and cut stone high school building here has been awarded by the School Board to the WEINBERG CONSTRUCTION CO., of Appleton, Wis., at $50,000. William Elliot, St. Paul, Minn., is Arch.

WINFIELD, KAN.—Plans and specifications will be received by the Board of Commissioners of Cowley County until March 1 for a court-house and jail and jailer's residence. Cost of court-house, $60,000; and jail and jailer's residence, $20,000. A. H. Abrams is County Clerk.

LEAVENWORTH, KAN.—Bids are asked until Feb. 28 by R. V. La Dow, Supt. of Prisons and Prisoners, Dept. of Justice, Washington, D. C., for furnishing and delivering at the U. S. Penitentiary, Leavenworth, the following structural material: 15,280 pieces 10 × 16 in., ¼-in. thick, Bangor, Me., black roofing slate; 1,000 pieces short leaf yellow pine, various sizes; 9,000 ft. 1 × 6-in. roof sheathing No. 2, tongued and grooved; 50 pieces plain white oak, various sizes; 450 ft. flooring, 1 × 2¼ in. No. 1; 100 rolls roofing felt No. 2, Barrett or equal; nine 8-in. I-beams, 16 ft. long; two 8-in. I-beams, 24 ft. long.

OMAHA, NEB.—John Latenser, Arch., Bee Bldg., Omaha, has let contract to McGOWAN & JACOBERGER for a 4-story hospital building for the Clarkson Memorial Hospital Association. Cost, $75,000.

ST. LOUIS, MO.—Wall Bros. are lowest bidders, at $161,627, for erection of Walnut Park school building. It will be fireproof, with steam-plenum heating system, electric lighting. Plans have been prepared by William B. Ittner, Arch., Comr. of School Bldgs.

Chicago and St. Louis capitalists, promoted by H. A. Vrooman, Pres., State Trust Co., have had plans prepared by Eames & Young, Archs., Wright Bldg., for erection of Buyers' Club Building. It will have 28 stories and will cost $1,500,000.

JACKSON, MO.—Matthews & Clarke, Missouri Trust Bldg., have let general contract to M. W. MUIR, Odd Fellows' Bldg., for a 2-story Bedford stone church, 70 × 118 ft., for the M. E. Congregation, South, Rev. M. T. Haw, Pastor, Jackson, Mo. Cost, $50,000.

KANSAS CITY, MO.—Sheppard & Farrar, Minor Bldg., Kansas City, have plans for a church for the First Baptist Congregation, Rev. Benjamin Otto, Pastor. Cost, $80,000.

ST. LOUIS, MO.—The Hiram Lloyd Bldg. & Construction Co., 816 Olive St., St. Louis, has been recommended for award of contract, at $629,715, for erecting a high school on Kensington and Union Aves. Other bidders were: E. C. Gerhard Bldg. Co., $634,247; C. L. Gray Construction Co., $643,246; Murch Bros. Construction Co., $648,700; Kellerman Contracting Co., $643,776; Hill-O'Meara Construction Co., $658,000; Hartmann Bricklaying & Construction Co., $665,518; E. A. Steininger Construction Co., $669,639; Thomas W. Hackett, $670,000; Chas. O. A. Brunk, $670,000; Wall Bros., $670,044; E. L. Wagner Construction Co., $674,800; Jacob Althaus, $674,769; Selden Breck Construction Co., $686,500; Fred Boeke, $685,000; Westlake Construction Co., $688,000; Gillick Bros., $693,477; S. L. Jones Bldg. Co., $699,950; Pelligreen Construction & Investment Co., $697,900; J. C. Robinson & Son, $708,972; James Stewart & Co., $719,000; Helm Bldg. Co., $731,399; E. P. Stranberg Co., $736,969.

SAN ANTONIO, TEX.—The St. Louis College, West End, will build an annex to its college, expending about $80,000. Addition will be divided into two sections; first to be 60 × 60 ft., with four stories and basement, and will contain class-rooms, dining halls, dormitories and private rooms; second section will be 40 × 87 ft., and will contain college chapel and assembly hall. James Wahrenberger & Sons, 218 East Commerce St., are Archs. Contract has been awarded to JACOB WAGNER.

DENVER, COLO.—Marean & Norton, Archs., Dodge Bldg., have prepared plans for a 3-story hotel, 125 × 100 ft., to be erected at Colfax and Lincoln Sts., at a cost of $70,000.

SPOKANE, WASH.—M. C. MURPHY has the contract for the erection of the Kemp & Herbert's block, at the corner of Main Ave. and Washington St. It will cost $150,000.

BREMERTON, WASH.—Bids are asked until 11 a. m., March 21, by R. C. Hollyday, Ch. Bureau of Yards and Docks, Washington, D. C., for constructing three buildings and their connecting passages for the Naval Hospital at the U. S. Navy Yard, Puget Sound, Wash. Specifications are on file at the office of Engineering News, New York.

SEATTLE, WASH.—Bids are asked by the Alaska-Yukon-Pacific Exposition Commission at the office of M. D. Wilson, Secy., Room 12, Hamilton Bldg., Portland, Ore., until noon, March 7, for the erection of the Oregon State Building, on the site of the Alaska-Yukon-Pacific Exposition, at Seattle. Daniel C. Lewis, Couch Bldg., Portland, Ore., is Arch.; Frank P. Allen, Jr., is Dir. of Works, Administration Bldg., Alaska-Yukon-Pacific Exposition, Seattle.

LOS ANGELES, CAL.—A 10-story building to cost $1,500,000 will be erected on Fifth St. at the southern end of the block between Main and Spring Sts., by A. C. Bilicke and R. A. Rowan of the Bilike-Rowan Co., Joseph Sartori, John Grosse and J. S. Torrence.

Thomas Higgins is planning to erect a 5-story building at the corner of Carr and Main Sts., A. L. Haley, Henne Bldg., is Arch. There will be five stories on the ground floor fronting on Main St., and the four upper stories will be fitted for a hotel. The estimated cost of the building is about $100,000.

*LOS ANGELES, CAL.—Bids are asked until 3 p. m., March 19, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for installing a vacuum cleaning system for the U. S. post-office and court-house at Los Angeles.

*Bids are asked until 3 p. m., April 2, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for installing plumbing and gas piping for the U. S. post-office and court-house at Los Angeles.

OGDEN, UTAH.—Bids were received as follows, Feb. 17, at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of an extension to the post-office building at Ogden: Tom Lovell & Co., Denton, Tex., $76,807, July 1, 1909; Campbell Building Co., Dooly Block, Salt Lake City, Utah, $84,445, 16 months; A. & J. McDonald, Salt Lake City, Utah, $91,790, July 1, 1909.

WELLAND, ONT.—Bids are asked until Feb. 29, by Langley & Howland, Archs., Continental Life Bldg., Toronto, Ont., for constructing a hospital building, at Welland.

WINNIPEG, MAN.—Plans are being prepared by H. C. Stone, Arch., Ottawa Bank Bldg., for a theatre, to be situated at the corner of Princess St. and Notre Dame Ave., adjoining the Ryan Wholesale Shoe Warehouse. Bids will be called within the next two weeks, and work will commence on the excavations early in March. The structure is to cost $100,000.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

NORWAY, ME.—We are officially advised that the contract for constructing a 1,000,000-gallon reservoir and laying pipe has been awarded by the Norway Water Co. to JOHN E. PALMER, 1012 Old South Bldg., Boston, Mass. S. D. Andrews is Pres., Norway Water Co.

KITTERY, ME.—Bids are asked until 1 p. m., March 1, by the Trustees of the Kittery Water District, Kittery, for laying about six miles of 4-in., 6-in., 8-in. and 10-in. water mains.

LAWRENCE, MASS.—R. D. WOOD & CO., 400 Chestnut St., Philadelphia, Pa., have been awarded the contract for 6, 8, and 12-in. pipe, at $25.05 per ton and for 4-in. pipe, at $26.05 per ton.

C. F. LYNCH, Lawrence, secured the contract for furnishing pig lead, at $3.98 per 100 lbs. M. F. Collins is Supt. W.-Works.

LAWRENCE, MASS.—A. D. Marble, City Engr., has been instructed to prepare plans and estimate the cost of covering old filter bed, also placing concrete bottom and sides to the structure.

*NORWICH, CONN.—Bids are asked until noon, March 2, by the Uncas Power Co., for the completion of the power-house above foundations now in place; also for the building of a reinforced-concrete dam on earth bottom about 200 ft. in length, and for a 25-ft. head located on the Shetucket River at Scotland, Conn., directly on track of the New York, New Haven & Hartford R. R. Including also certain embankments and other accessories, the total quantities required being approximated as follows: Earth excavation, wet, 85,000 cu. yds.; earth excavation, dry, 7,500 cu. yds.; rock excavation, 500 cu. yds.; concrete, 7,800 cu. yds.; riprap, 1,600 cu. yds.; reinforcing steel, 200,000 lbs.; structural steel, 32,000 lbs.; permanent lumber, 18 M. ft.; sheet piling, 75 M ft.; brick in power-house, 70,000; gravel roof, 22 squares.

BREWSTER, N. Y.—Contracts have been awarded for furnishing material for water-works, as follows: To M. J. DRUMMOND & CO., 182 Broadway, New York, for 4, 6 and 8-in. pipe, $25 per ton; specials, 2½ cts. per lb.; and for gates and gate boxes, to C. S. MERRICK & CO., New Haven, Conn., for jute, 3½ cts. per lb., and lead, 3.95 cts. per lb. T. H. McKenzie, Southington, Conn., is Engr.; Richard Mitchell is Village Clk.

NORTH TONAWANDA, N. Y.—The Common Council awarded the contract on Feb. 10 to the TONAWANDA LIGHT & POWER CO. for furnishing power for running pumps at the pumping station here for Lockport's water supply.

*ASBURY PARK, N. J.—We are officially advised that the following bids were received on Feb. 8 by the Department Water and Sewers for the erection complete of one 200-HP. internal furnace boiler: A. D. Granger Co., New York, $4,427; Philadelphia Iron Works, Philadelphia, Pa., $3,654; Thos. C. Basshor Co., Baltimore, Md., $3,647; Edwin Burham, New York, $3,645; James Beggs & Co., New York, $3,425; Howard W. Read, Philadelphia, Pa., $3,420; Dover Boiler Works, Dover, N. J., $3,195; E. KEELER CO., Williamsport, Pa., $2,900 (awarded contract). John L. Coffin is Supt. Dept. Water and Sewers.

BALTIMORE, MD.—See under Buildings.

ROME, GA.—Bids are asked until March 9 by the Board of Public Works for a gravity filter of not less than 500,000 gallons capacity per 24 hours, to be delivered and erected at Rome. M. L. Morrell is Supt. Bd.; C. H. McLin is Chn. Bd.

ATLANTA, GA.—Bids are asked until Feb. 28 by R. V. LaDow, Supt. of Prisons and Prisoners, Dept. of Justice, Washington, D. C., for furnishing and delivering at the U. S. Penitentiary, Atlanta, [illegible],000 ft. of ½-in. conduits, 325 outlet boxes, covers, bushings, nuts, caps, etc.

*ROCKINGHAM, N. C.—Bids are asked until 3 p. m., Feb. 27, by the Board of Commissioners, Rockingham, at the office of the Clerk, for constructing, as a part of a water-works plant, to [illegible] of laying (but not furnishing) about [illegible] miles of pipe, water tower, pumping station and reservoir. W. L. Scales is Clk. Bd. Gilbert C. White, Durham, N. C., is Engr.

SPEEDS ADDITION (Vicksburg post-office), MISS.—We are officially advised that HORACE M. MARSHALL, Vicksburg, Miss., has been awarded the contract by the village for boring an artesian well, erecting a stand-pipe, and laying pipes for the water system, at $19,559.

COLUMBIA, MISS.—N. [illegible] Kramer, Magnolia, Miss., will prepare plans and specifications for the construction of the water-works system. Estimated cost, [illegible],000. W. L. Simon is Town Clk. E. [illegible]hard is Engr., Columbia.

CLEVELAND, OHIO.—The Board of Public Service proposes to have constructed a filtration plant to supply water to the West Side, at a cost of about $[illegible]. The sum of $63,140 has been appropriated for the purchase of eight acres of land between Washington and Division Aves.

LOGANSPORT, IND.—W. H. HAYWORTH was awarded the contract on Feb. 11 by the Board of Public Works for sinking an artesian well in McKinley Park, at $1.[illegible] per ft.

SOUTH BEND, IND.—Contracts have been awarded by the Board of Public Works, as follows: For water meters, THOMPSON METER CO., Brooklyn, N. Y., 25 1-in., at $16.80 each, and 50 ⅝-in., at $8.40 each; UNION WATER METER CO., Worcester, Mass., 50 ⅝-in., at $8 each; PITTSBURG METER CO., 50 ⅝-in., at $8.40 each; H. R. WORTHINGTON CO., Chicago, Ill., 50 ⅝-in., at $7.35 each.

SOUTH BEND, IND.—The U. S. CAST-IRON PIPE & FOUNDRY CO., 71 Broadway, New York, was awarded the contract on Feb. 12 by the Board of Public Works for furnishing 750 tons of water pipe, at $24.[illegible] per ton. F. Schafer is Supt. Bd.

BERRIEN SPRINGS, MICH.—We are officially advised that the C. L. OLDS CONSTRUCTION CO., Fort Wayne, Ind., was awarded the contract on Feb. 10 by the village for the construction of a water-works system, at $14,880.

ROBERT F. KERSEY, South Bend, Ind., secured the contract for sinking wells, at $1,200. Loren Marquissee is Village Clk.

QUINCY, ILL.—THE AMERICAN CAST IRON PIPE CO., Birmingham, Ala., has secured the contract for 4,500 ft. 12-in. cast-iron pipe, for the Citizens' Water Co., at $7,000. W. P. Gelston is Supt. Co.

GOLCONDA, ILL.—The Golconda Light and Water Co., has been incorporated with a capital of $12,000 to operate light and water plants. J. O. Williamson is one of the incorporators.

MINNEAPOLIS, MINN.—The Water-Works Committee has under consideration plans for installing a filter plant. Estimated cost, $1,000,000. Andrew Rinker is City Engr.

MINNEAPOLIS, MINN.—Contracts were awarded on Feb. 14 by the City Council, as follows: U. S. CAST-IRON PIPE & FOUNDRY CO., 71 Broadway, New York, for 3,004 tons water pipe, at $25.20 per ton; CAMDEN IRON WORKS, 140 hydrants, at $41.75 each; CROWN IRON WORKS, 125 tons special castings, at $53 per ton; JAMES B. CLOW & SONS, Chicago, Ill., valves, 6-in., $13.80; 8-in., $21; 12-in., $39.25; 16-in., $87.60; 24-in., $263.50. Ellis R. Dutton is Asst. City Engr.

HELENA, MONT.—Bids are asked until noon, March 2, by Percy R. Witmer, County Clk., for the construction of a reservoir and ditch at the County Hospital.

CHILDRESS, TEX.—Bids are asked until March 3 by the city for the construction of a water-works system. Joseph H. Aynesworth is City Secy.

OKLAHOMA CITY, OKLA.—The DIMMICK PIPE CO., St. Louis, Mo., has been awarded the contract for furnishing 895 tons of cast-iron pipe at $27.85 per ton, and ten tons of bell and spigot castings at 3 cts. per pound, to be used in the extension of water-works system. Estimated cost of system, $50,000.

SAPULPA, OKLA.—The city has engaged A. Earl & Co., Muskogee, Okla., as consulting engineers on the water-works improvements. Estimated cost, $35,000.

ALTUS, OKLA.—Bonds for $50,000 have been authorized for the construction of a water system.

HUGO, OKLA.—The City has voted $150,000 of bonds for the construction of water-works. Plans and specifications will be prepared by O'Neil Engineering Co., Dallas, Tex.

NORTH YAKIMA, WASH.—CASE & ESBACH have been awarded the contract for the construction of a dam for the Pleasant Valley Irrigation Co. in the East Selah valley. The company will irrigate about 1,500 acres for fruit culture. The dam will be 60 ft. high and 800 ft. wide.

SANTA CLARA, CAL.—We are officially advised that W. N. CONCANNON, 9 Mission St., San Francisco, Cal., was awarded the contract on Feb. 3 by the Water and Light Committee for the construction of a 100,000-gallon steel water tower and tank, at $5,944. G. J. Fenton is Town Clk.

SACRAMENTO, CAL.—Bids are asked until 8 p. m., Feb. 24, by M. J. Desmond, City Clk., for cast-iron pipe.

MONTREAL, QUE.—Plans are being considered by the Water Department for the enlargement of the aqueduct for a greater water supply. Estimated cost, about $2,000,000.

NORTH BAY, ONT.—Plans are being prepared for the construction of a 1,000,000-gallon reservoir at Trout Lake.

VANCOUVER, B. C.—C. H. Wilkenson, Pres. of the British Columbia Development Co., Vancouver, states the company will expend $250,000 during the present year in irrigating lands in the Kootenay district.

Bids are asked until 4 p. m., March 16, by the City Council of Vancouver for supplying the following: 33,000 ft. 12-in., 18,000 ft. 8-in., 36,500 ft. 6-in., 25,000 ft. 4-in. pipe. N. A. Clement is City Engr.

CALGARY, ALTA.—Bids are asked by H. E. Gillis, City Clk., until March 1, for cast-iron water pipe.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

WALLINGFORD, CONN.—We are officially advised that contracts for the construction of sewers in Wallace Ave., Center St., Ivy St. and Christian St. were awarded on Feb. 4, by the Court of Burgesses, to GANNON & KAVANAGH, Wallingford. J. H. Child is Borough Engr.

EAST RUTHERFORD, N. J.—Wise & Watson, Consulting Engrs., Rutherford, N. J., have submitted the final estimate of the cost of the sewerage system as follows: Union Ave. septic tank, $5,870; Carlton Hill septic tank, $3,845; pumping plant, east side, $1,925; pumping plant, west side, $2,250; force pipe, from east side tank, $1,800; land rights, east side, $2,500; land rights, north side, $350; residue of plant connection of laterals, etc., $75,905. Total cost, $94,445.

UNIONTOWN, PA.—W. C. McCORMICK, Uniontown, has been awarded the contract for constructing vitrified tile sewer in North Gallatin Ave.

*ST. MARYS, PA.—Bids are asked until 8 p. m., March 30, by L. C. Hanhauser, Borough Secy., for the construction of a system of sanitary sewers, as follows: 1,026 ft. of 18-in. double strength vitrified sewer pipe, 3,331 ft. of 15-in. double strength vitrified sewer pipe, 5,905 ft. of 12-in. double strength vitrified sewer pipe, 6,189 ft. of 10-in. double strength vitrified sewer pipe, 40,852 ft. of 8-in. double strength vitrified sewer pipe, 184 manholes, 38 flush tanks, and for furnishing terra-cotta pipe and fittings to be used in the above work.

WASHINGTON, D. C.—Bids are asked by the Commissioners District Columbia until 2 p. m., Feb. 25, for furnishing the District government with terra cotta sewer pipe, and until noon, March 2, for the construction of sewers in the District of Columbia. Henry B. F. Macfarland, Henry L. West and Jay J. Morrow are Comrs. D. C.

WASHINGTON, D. C.—The Commissioners of the District of Columbia have awarded to the WARREN F. BRENIZER CO., Washington, D. C., contract for the construction of a sewer at the following prices: Ordinary excavation, 66 cts.; sewer brick masonry, $16.50; 21-in. diameter pipe, $1.06; 18-in. pipe, 67 cts.; 15-in. pipe, 61 cts.; 12-in. pipe, 71 cts.

PASCAGOULA, MISS.—The Council has passed an ordinance providing for the issue of $20,000 of bonds for street improvement and storm sewers.

*HATTIESBURG, MISS.—We are officially advised that the contract for the construction of 8 to 12-in. sanitary sewers, 24,000 ft. in length, was awarded on Feb. 10 by the city to T. P. CRYMES, Hattiesburg, at about $28,000. J. H. Putnam is City Engr.

*LOUISVILLE, KY.—Bids are asked until noon, March 12, by the Commissioners of Sewerage, for the construction of Section "A" of the Beargrass Interceptor, the work to consist mainly of a sewer of the following sizes and lengths: 5 ft. 8 in. by 5 ft. 4½ in., 2,109 ft. long; 6 ft. 1½ in. by 6 ft. 6 in., 2,447 ft. long; excavation, 2,510 lin. ft. in open cut, 2,120 lin. ft. in tunnel; concrete (three classes), 3,500 cu. yds.; piles, 24,000 lin. ft.; reinforcing steel bars, 126,000 lbs. P. L. Atherton is Chn. Comrs. J. B. F. Breed is City Engr.

CLEVELAND, OHIO.—Bids are asked by A. R. Callow, Secy, Bd. Pub. Serv., until noon, Feb. 25, for the construction of sewers in various streets and avenues.

ASHTABULA, OHIO.—The State Board of Health has approved plans for the construction of a new sewer district, No. 3, in Western Ashtabula, and work of construction of outlets and contributory sewers will be commenced the coming summer, under the direction of Lewis A. Amsden, City Engr.

AURORA, IND.—Bids are asked by the Common Council until 7 p. m., March 2, for the construction of a district sewer for and in sewer district No. 1. Estimated cost, $12,500. Frank D. Johnston is City Clk. Charles Carroll Brown is Consulting Engr. Charles H. Gore is City Engr.

INDIANAPOLIS, IND.—See under Streets and Roads.

VINCENNES, IND.—The City Engineer is preparing plans for the construction of a concrete sewer, estimated to cost $50,000.

LINTON, IND.—The contract for the construction of the sewer system originally awarded to Morgan & Slinkard has been transferred to GREENE & SONS CO., Chicago. Consideration, $65,000.

LUDINGTON, MICH.—Bids are asked until 2 p. m., March 2, by the Board of Public Works, for the construction of sewers in Foster, Filer, Danaher, Loomis, Lewis and Madison Sts. Fred Gallie is City Clk.

MARQUETTE, MICH.—Bids are asked by the Park, Cemetery and Street Commission until 3 p. m., March 3, for the construction of a 6-in. tile sewer, with 4-in. "Ys," in Fourth St., from sewer in Rock St., to a point 50 ft. north of the north line of Fisher St., with manhole and lamphole; and for the construction of a 6-in. tile sewer, with 4-in. "Ys," in Genesee St., from the manhole in Adams St., to a point 18 ft. east of the east line of Altamont St., with lampholes. Joseph F. Anderson is Clk., Comm.

RED OAK, IOWA.—Bids are asked until March 2 by C. M. Kelly, City Clk., for constructing about 3,450 lin. ft. 10-in. and 1,600 lin. ft. 8-in. vitrified clay pipe sewer.

AURORA, MINN.—The citizens on Jan. 29 voted to issue $20,000 bonds for constructing a sewerage system. Chas. M. Donway is Engr.

STAPLES, MINN.—The City Council has passed a resolution providing for the extension of the sewerage system. C. B. Cashman is City Clk.

ST. PAUL, MINN.—Sewers will be constructed in Luke St., from St. Clair St. to the Mississippi River, in Acker St. as far as Capitol Heights from the end of the present sewer, and in Brown Ave. from Midway to Gates Sts. Estimated cost, $36,000. L. E. Rundlett is City Engr.

ST. PAUL, MINN.—The Board of Public Works, R. L. Gorman, Clk., will soon ask for bids for the construction of a gravity sewer system in Duke St., to cost $14,000, and for a sewer in Brown Ave. and Gates St., to cost $16,000. L. W. Rundlett is City Engr.

MINNEAPOLIS, MINN.—We are officially advised that bids for sewer material were received by the City Council on Feb. 14, as follows: 200 tons special castings: Atlas Iron Works, city, $47.50 per ton; Northwestern Foundry Co., city, $37; Menzel & Jeffrey, city, $44.30; Crown Iron Works, city, $37.45; St. Anthony Foundry Co., city, $45; Johnson Foundry Co., city, $43.50; Standard Foundry Co., 1036 Third Ave., Northeast, city, $35; 5,000 bbls. Portland cement: Marquette Cement Co., La Salle, Ill., $1.19 per bbl. (f. o. b.); Carney Bros., Minneapolis, $1.28; Menomonie Hydraulic Pressed Brick Co., Minneapolis, $1.325; Guarantee Cement & Stone Co., Minneapolis, $1.26; Northwestern States Portland Cement Co., Mason City, Iowa, $1.12; N. W. Lime Co., St. Paul, Minn., $1.25; 2,000,000 sand mold sewer brick: Minneapolis Brick & Tile Co., 517 Kasota Block, city, $7.90; Menomonie Hydraulic Pressed Brick Co., city, $9.40; Wisconsin Red Pressed Brick Co., city, $9.25; vitrified clay pipe: Red Wing Sewer Pipe Co., Red Wing, Minn., 10½ cts. for 6-in., $1.25 for 24-in. Ellis R. Dutton is Asst. City Engr.

WICHITA, KAN.—Bids are asked by R. N. Dorr, City Clk., until March 2 for the construction of sanitary sewer in Sanitary Dist. No. 8, to consist of 121,441 lin. ft. 25 to 8-in. sewer, 717 8-in. observation holes, 364 manholes, 54 flush tanks and one outlet protector; bids to be made on brick and vitrified tile, concrete and vitrified tile and on vitrified tile.

CARTERVILLE, MO.—The J. W. WATSON CONSTRUCTION CO., St. Louis, Mo., was awarded the contract by the City Council on Feb. 6 for the construction of a sewerage system, at $13,310. F. A. Funk is City Engr.

ST. LOUIS, MO.—Bids are asked by the Board of Public Improvements until noon, Feb. 28, for the construction of sewers in Nebraska Ave. and in Ferry St. W. B. Dryden is Secy. Bd.

*ST. LOUIS, MO.—Plans and specifications are on file at the office of Engineering News, New York, for the construction of Section "A" of the Beargrass intercepter. Bids are asked until March 12. J. B. F. Breed is Ch. Engr., Comrs. of Sewerage.

*BARTLESVILLE, OKLA.—We are officially advised that the R. J. & WILLIAM BOYD CONSTRUCTION CO., Kansas City, Mo., has been awarded the contract for the construction of 8, 10, 12 and 15-in. tile sewers, 34,500 ft. in length, at about $33,850. E. O. D'Yarmett is City Engr. F. B. Harnett is City Clk.

SPOKANE, WASH.—FEDERAL LABOR UNION No. 11,624 has been awarded the contract for the construction of a sewer in Ninth Ave., at $3.184.

SANTA CRUZ, CAL.—The City Engineer has been instructed to prepare plans and specifications for the construction of a sewer in Plateau Ave.

The contract for the construction of a sewer in Case, Lodi and Seaside Aves. has been awarded by the Council to L. T. McFADDEN, at 65 cts. per lin. ft. and $20 each for manholes.

BERKELEY, CAL.—Bids are asked until 11 a. m., Feb. 24, by the University of California, at 220 California Hall, for the construction of a sewage disposal and water supply system for the University farm, Davis, Cal.

SALT LAKE CITY, UTAH.—Bids are asked by the Board Public Works until 3:30 p. m., Feb. 21, for furnishing the material and constructing outlet pipe for intercepting sewers. H. G. M. Millon is Chn. Bd.

GARBAGE DISPOSAL.

BUFFALO, N. Y.—Bids will soon be asked by Francis G. Ward, Comr. Pub. Wks., for the collection and removal of garbage and general refuse from the public and private buildings and places of the city for a period of five years from July 1, 1908.

AMBLER, PA.—Bids are asked by the Board of Health until 8 p. m., Feb. 27, for the collection of kitchen garbage. H. V. Everham, Sr., is Secy. Bd.

JOHNSTOWN, PA.—The Board of Health has recommended the construction of a municipal garbage furnace here, and has instructed Dr. George Hay, Health Officer, and E. T. Edwards, Sanitary Inspector, to inspect similar plants in various cities and get estimates of the cost of construction and maintenance. A by-product plant, similar in construction to those at Harrisburg and Uniontown, Pa., is contemplated.

PITTSBURG, PA.—The American Reduction Co., Pittsburg, has submitted the only bid for the garbage contract for 1908, at $186,000.

*COLUMBUS, OHIO.—Bids are asked until noon, May 11, by the Board of Public Service, for the construction of a garbage reduction works. The work consists of the complete design, construction, delivery and erection of garbage reduction works, on land owned by the city, the works to have a capacity of 100 tons per 24 hours. E. W. Hirsch is Secy. Bd.

SALEM, OHIO.—See under Sewers.

ZANESVILLE, OHIO.—Bids for the removal of city garbage for one year have been opened by the Board of Public Service, as follows: Woodrow & Sutor, $3,490; C. W. Emery, $3,000; M. C. Spaulding, $2,999; Harry Downey, $2,992; M. L. Fisher, $2,840; C. W. Fisher, $2,698. H. H. Kennedy is City Audr.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

ATTLEBORO, MASS.—The contract for constructing a new highway to parallel the proposed new electric car line connecting Attleboro and Pawtucket was awarded on Feb. 8 to EVELINE BROS., New Britain, Conn.

MILFORD, MASS.—A section of state road in Milford will be built between Milford and Hollston. Dennis J. Sullivan is Town Clk.

NEW YORK, N. Y.—Bids are asked until 2 p. m., March 4, by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for excavating and removing rock in hydrant trenches.

*NORTH OLEAN (Olean post-office), N. Y.—The following bids, we are officially advised, were opened on Feb. 13 for 16,000 sq. yds. paving, with necessary excavation, curbing, street inlets, etc.: G. J. Vedder, $57,619; Dugan & Keenan, $49,110; Hassam Paving Co., $44,233; Morrison & Harris, $45,733; J. F. Kirwin & Co., $43,036; J. C. Swanson & Co., $40,523; W. H. Simpson, $42,439; R. W. Henson, $42,614; S. C. Hull, $43,705; Wisdom Paving Co., $47,008; Franklin Construction Co., $49,691; McNicoll & O'Connor, $49,524; Hageman, Miller & Hogan, $42,441; James Nixon, $46,928. Bids are based on Kushequa repressed brick except as to J. C. Swanson & Co. and James Nixon, who bid on Jamestown repressed brick. Knight & Hopkins, Rome, N. Y., are Engrs.-in-Charge.

ALBANY, N. Y.—As a result of the opening of bids on January 20th and 23d, Frederick Skene, State Engr. and Surv., has awarded the following contracts for improvement of the State highways:

To TWOMBLY & ELDERT, Jamaica, L. I., N. Y.: No. 543, Nassau County, $47,555.

To BROWN & LOWE, Schenectady, N. Y.: No. 561, Sec. 1, Oneida County, $46,000; No. 562, Sec. 2, Oneida County, $37,885; No. 563, Oneida County, $49,660.

To STEWART-KERBAUGH-SHANLEY CO., 527 Fifth Ave., New York: No. 584, Erie County, $76,011; No. 695, Cattaraugus County, $11,794; No. 696, Sec. 1, Cattaraugus County, $33,907; No. 697, Sec. 2, Cattaraugus County, $17,363; No. 726, Sec. 2, Madison County, $77,721; No. 541, Fulton County, $49,773.

To M. L. SIVER & CO., Sidney, N. Y.: No. 599, Chenango County, $60,170; No. 677, Otsego County, $43,815.

To MALLOY & DAVIS, Schenectady, N. Y.: No. 641, Schenectady County, $33,545.

To BELLEW & MERRITT CO., Tuckahoe, N. Y.: No. 693, Suffolk County, $29,592; No. 689, Rockland County, $32,831; No. 700, Sec. 2, Sullivan County, $44,939; No. 743, Suffolk County, $38,081.

To P. F. HERLIHY, Glens Falls, N. Y.: No. 692, Warren County, $76,102.

To ROBERTS & GERHART CONTRACTING CO., New York: No. 694, Suffolk County, $66,097.

To ELMER L. LOVE & SONS, Corry, Pa., No. 698, Chautauqua County, $9,846.

To JOHN F. CLANCY, Long Island City, N. Y.: No. 699, Sec. 1, Sullivan County, $56,022.

To BUCKLEY CONSTRUCTION CO., Plattsburg, N. Y.: No. 701, Franklin County, $34,927.

To SPUYTEN DUYVIL CONSTRUCTION CO., New York: No. 702, Sec. 2, Franklin County, $43,229; No. 703, Sec. 3, Franklin County, $32,069.

To JOHN E. CONSAULIS, New York: No. 719, Sec. 2, Greene County, $37,895.

To LINEHAN & BURNHAM CO., Glens Falls, N. Y.: No. 720, Washington County, $35,350.

To JOHN E. QUINN, Brooklyn, N. Y.: No. 721, Washington County, $24,355.

To HINMAN & SPROUL, Schenectady, N. Y.: No. 722, Washington County, $18,328.

To STARR CONTRACTING CO., Glens Falls, N. Y.: No. 730, Sec. 1, Cattaraugus County, $29,731.90; Portville-Olean Road No. 731, Sec. 2, Cattaraugus County, $19,619.

To RYAN & YALE, Brewster, N. Y.: No. 732, Sec. 1, St. Lawrence County, $64,472; No. 733, Sec. 2, St. Lawrence County, $67,016.

To BRADLEY & NOLAN, Corning, N. Y.: No. 742, Steuben County, $48,185.

To CHARLES H. FLANIGAN, Albany, N. Y.: No. 691, Warren County, $46,324.

The bids received on Road No. 533, Onondaga County, and on Road No. 554, Onondaga County, have been rejected. For full details see issues of Jan. 30 and Feb. 13.

OSWEGO, N. Y.—We are officially advised that John Henrick, Oswego, was the lowest bidder on Feb. 14, for 7,400 sq. yds. brick and stone paving curb, headers, etc., at $1.41 per sq. yd. for Metropolitan and $1.35 per sq. yd. for Corning brick. Charles H. Snyder is City Engr.

FORT HAMILTON (Brooklyn post-office), N. Y.—NORTON & GORHAM CONTRACTING CO., Brooklyn, N. Y., has been awarded the contract for grading, filling, sodding and seeding at $12,800, and for removing stone wall, at $195.

*CORTLAND, N. Y.—Bids are asked until 8 p. m., Feb. 25, by the Board of Public Works for paving North Main St. and Homer Ave. with either sheet asphalt or vitrified brick or block pavement. The approximate estimate of the quantities is as follows: 15,350 sq. yds. either sheet asphalt or vitrified brick or block pavement; 6,975 lin. ft. stone curb or cement curb and gutter; 275 lin. ft. stone headers; 510 lin. ft. 18-in. vitrified tile pipe; 650 lin. ft. 15-in. vitrified tile pipe; 225 lin. ft. 10-in. vitrified tile pipe; 150 cu. yds. broken stone; 500 cu. yds. Portland cement concrete; 5 catch basins; 1 manhole; 4 inlets. E. S. Dalton, City Clk.

*PATERSON, N. J.—Bids are asked until 2 p. m., March 11, by the Road Committee of the Board of Chosen Freeholders, at the office of the County Clerk, Paterson, for grading and macadamizing the Midvale (Greenwood Lake) road from the end of macadam at Boardville to the West-Milford Township line. Winfield S. Cox is Chn. Road Com. George W. Bothyl is Clk.

TITUSVILLE, PA.—Bids are asked until March 2, by W. M. Dame, City Clk., for regulating, grading, curbing and paving portions of May Ave., South Franklin and East Bloss Sts., bids to be on vitrified shale or fire clay brick or block, 8,645 sq. yds. of pavement in all. H. A. Holstein is City Engr.

*SMETHPORT, PA.—Bids are asked until 8 p. m., Feb. 27, by W. G. Holder, Secy. Council, for paving Main St., Smethport Borough.

*OIL CITY, PA.—Bids are asked by C. W. Mullalley, City Controller, until 4 p. m., March 9, for grading, curbing and paving Graff, Stout, Spruce and Pulaski Sts., and portions of Duncomb St. and Harriot Ave.; the work to embrace approximately 10,090 cu. yds. of excavation; 7,610 lin. ft. curbing; 12,130 sq. yds. brick paving; 700 cu. yds. concrete retaining wall; 100 ft. 12-in. sewers; 400 ft. 10-in. sewers; and 25 sewer inlets.

WASHINGTON, D. C.—Bids are asked at Depot Quartermaster's Office, Washington, D. C., until March 5 for resurfacing roadways on Antietam battlefield. Maj. M. Gray Zalinski is Q. M., U. S. A., Washington, D. C.

DURHAM, N. C.—The Durham County Commissioners have awarded the contract to the PETERS CONSTRUCTION CO., Knoxville, Tenn., at $60,640, for grading and macadamizing Roxboro road, 11.64 miles long. Gilbert C. White is Engr.

HUNTSVILLE, ALA.—THE GRAVES' SHALE PAVING BRICK CO., Birmingham, Ala., has been awarded the contract for paving of streets and around public square at Huntsville at $21,450.

LOUISVILLE, KY.—The contract for the construction of the free turnpike was awarded on Feb. 6 by the County Commissioners, Floyd County, to WILLIAM O. SWEENEY, Jeffersonville, Mo., at $17,972.

Bids are asked by the Board of Public Works until Feb. 26 for grading, curbing and paving five streets with vitrified block. The work includes 6,000 cu. yds. excavation, 5,000 lin. ft. curb, 10,000 sq. yds. vitrified block pavement. Estimated cost, $24,000.

Bids are asked by Board of Public Works until Feb. 28 for grading, curbing and paving nine alleys with vitrified brick or block, embracing 3,000 cu. yds. excavation, 5,000 lin. ft. curb, 4,000 sq. yds. pavement. Estimated cost $12,000. J. P. Claybrook is Ch. Engr. Dept. Pub. Wks.

LOUISVILLE, KY.—Bids are asked by the Board of Public Works until Feb. 26 for paving various streets with vitrified paving block. Roger McGrath is Secy. Bd.

CINCINNATI, OHIO.—Bids are asked until noon, March 13, by the Board of County Commissioners for the improvement of Edmundson Road, from Edwards Road to Duck Creek Road. Fred Dreihs is Clk. Bd.

MOUNT HEALTHY, OHIO.—Bids are asked until noon, Feb. 21, by the Board of County Commissioners for the improvement of Hamilton pike from Mt. Healthy to Springfield Township. Fred Dreihs is Clk. Bd.

Bids are asked by the Board of Public Service until noon, Feb. 21, for improving Burgoyne St., from Spring Grove Ave. to Colerain Ave., by grading, setting sandstone straight curbs and granite circular curbs, and constructing necessary drains and basins. John J. Wenner is Clk. Bd.

SANDUSKY, OHIO.—Bids are asked until 10 a. m., March 9, by the Board of County Commissioners for widening the roadway at the approaches over the Monroe St. concrete arch bridge. Charles Kuback is County Audr.

VERNON, IND.—We are officially advised that the only bid received on Feb. 3 by the County Commissioners for the construction of gravel pike road in Center and Vernon Townships was that of J. M. Childers, County Audr.

VERNON, IND.—The contract for constructing 4,568 ft. gravel road in Vernon and Center Townships has been awarded by the County Commissioners to J. M. CHILDERS, Scipio, Ind., at $4,897. T. L. Thomas is County Audr.

ROCKVILLE, IND.—JOHN PITTSER was awarded the contract on Feb. 8 by the County Commissioners for the construction of the Demaree, Henry Close, Rusk and Sullivan schoolhouse roads.

GILLIAN, MORRIS & IRELAND secured the contract for the construction of the Burks, Fisher schoolhouse and Hocker roads. H. A. Henderson is County Audr.

ROCKVILLE, IND.—Bids are asked by Commissioners of Park County until 1 p. m., March 4, for the construction of a gravel road in Washington Township, known as the Clark and Murray road. H. A. Henderson is County Audr.

SPENCER, IND.—Bids are asked by the Commissioners of Owen County until 1 p. m., March 3, for the construction of two pike roads in Franklin Township, 12,997 and 8,180 ft. in length, respectively; one pike road in Washington Township 6,827 ft. in length; one pike road in Jennings Township, 6,176 ft. in length; and one pike road in Montgomery Township, 5,336.4 ft. in length. George W. Edwards is County Audr.

LEBANON, IND.—Bids are asked by Commissioners of Boone County until 10 a. m., March 2, for the construction of 11,830 ft. of gravel road in Clinton Township, known

as the Hugh Campbell road, and until 2 p. m., same date, for a gravel road, 10,512 ft. in length in Clinton Township. B. F. Hedrick is County Audr.

PERU, IND.—Bids are asked by the Commissioners of Miami County until 1 p. m., March 3, for grading, paving, bridging, arching and otherwise improving road No. 1, in Clayton Township, and roads Nos. 2, 3, 4, 5 and 6 in Deer Creek Township. Charles Griswold is County Audr.

TERRE HAUTE, IND.—Bids are asked by the Commissioners of Vigo County until 11 o'clock a. m., Feb. 29, for the construction of 2 1-3 miles of gravel road on the line between Prairieton and Honey Creek Townships. Nathan G. Wallace is County Audr.

VINCENNES, IND.—Bids are asked by the Commissioners of Knox County until 2 p. m., March 5, for the construction of two miles and 3,334 ft. of gravel road in Johnson Township.

BAY CITY, MICH.—The contract for supplying broken stone for the county stone roads was awarded on Feb. 8 by the State Road Board to the BAYPORT STONE CO., Bayport, Mich., at $1.20 per ton and $1.05 for screenings.

OTTAWA, ILL.—Bids are asked until March 2 by the Board of Local Improvements for 41,000 sq. yds. of brick pavement, 10,420 sq. ft. of granitoid cross-walks, 22,878 lin. ft. of combined curb and gutter of granitoid concrete, etc. Estimated cost, $86,213. Charles F. Wilson is Secy. Bd.

CAIRO, ILL.—We are officially advised that the following bids were received on Feb. 12 by the Board of Local Improvements for paving Washington Ave. from Second to 35th Sts., with brick: Roy L. Williams, Kalamazoo, Mich., $123,762; A. F. Franks, Jacksonville, Ill., $129,092; John Cherry, Jacksonville, Ill., $135,000. W. B. Thistlewood is City Engr.

WATERTOWN, WIS.—Bids are asked until 2 p. m., March 14, by the Board of Public Works for improving a portion of Main St., Church and North Church Sts. E. B. Parsons is City Engr., Frank S. Weber is City Clk.

KENOSHA, WIS.—Bids are asked until Feb. 21 at the office of the Street Assessment Committee for improving Ashland Ave., Market, Church and West Main Sts., requiring 26,219 sq. yds. brick pavement and 13,454 ft. curb. R. H. Moth is City Engr.

RACINE, WIS.—Bids are asked until March 7 at the office of the City Clerk, for paving Northwestern Ave., requiring about 5,412 sq. yds. brick pavement, 1,161 lin. ft. concrete gutter, 1,118 lin. ft. combined concrete curb and gutter. P. H. Connolly is City Engr.

CEDAR FALLS, IOWA.—Bids are asked until Feb. 25 by the City Council for paving with brick portions of First, Washington, 16th, Clay and 22d Sts., requiring in all approximately 17,650 sq. yds. brick pavement with macadam foundation, 10,514 lin. ft. 6 x 21-in. new curb, 1,500 cu. yds. extra grading; also paving with asphalt on Washington St., requiring 15,790 sq. yds. sheet asphalt paving with concrete foundation, and binder course, 5,108 lin. ft. combined curb and gutter with old curb and 240 cu. yds. of extra grading. W. H. Merner, Mayor.

DES MOINES, IOWA.—All bids for paving 30th St. from University to State Sts., with asphalt, were rejected on Feb. 11 by the Board of Public Works. The bidders were: W. A. Bryant & Sons Co., Waterloo, Iowa, $2.15 a sq. yd.; Metropolitan Engineering & Construction Co., Kansas City, Mo., $2.12 a sq. yd. George D. Dobson is City Engr.

MINNEAPOLIS, MINN.—Bids are asked until 7.30 p. m., Feb. 28, by the City Council for the following: 40,000 sq. yds. vitrified brick; 40,000 sq. yds. sandstone blocks; 75,000 sq. yds. creosote blocks; 2,000 cu. yds. crushed granite; 5,000 lin. ft. granite curb; 10,000 lin. ft. sandstone curb. Ellis R. Dutton is Asst. City Engr.

Bids were received on Feb. 14 by the City Cuncil for 15,000 bbls. Portland cement: Marquette Cement Co., La Salle, Ill., $1.19 per bbl.; Carney Bros., Minneapolis, $1.28; Menomonie Hydraulic Pressed Brick Co., Minneapolis, $1.325; Guarantee Cement & Stone Co., Minneapolis, $1.26; Northwestern State Portland Cement Co., Mason City, Iowa, $1.12; Northwestern Lime Co., St. Paul, Minn., $1.25.

GOLDENDALE, WASH.—Bids are asked until 2 p. m., Feb. 26, by A. M. McLeod, County Audr., for the construction of a section of the Lauterbach road.

SEATTLE, WASH.—Bids are asked until 2 p. m., Feb. 25, by the Board of County Commissioners for the construction of 5,250 ft. earth road on the T. T. Crow road.

SPOKANE, WASH.—THE BARBER ASPHALT PAVING CO., 114 Liberty St., New York, was awarded the contract on Feb. 6 by the city for paving North Monroe St., Mallon Ave. to Indiana Ave., with asphalt, at $52,800. Charles McIntyre is City Engr.

OLYMPIA, WASH.—Bids are asked until 2 p. m., Feb. 25, by Joseph M. Snow, State Highway Comr., Olympia, for grading state road No. 10, known as the Sprague Ave. road.

LOS ANGELES, CAL.—GEORGE H. OSWALD has been awarded the contract by the Board of Public Works for the improvement of Guirado St., from Euclid Ave. to a point 880 ft. east, at $6,102. Homer Hamlin is City Engr.

MANUFACTURING PLANTS.

(** denotes that this work is advertised in Engineering News.*)

WATERVILLE, ME.—The HORACE PURINTON CO., Waterville, has been awarded the contract to construct a 2-story brick and stone factory, 40 x 120 ft., a dryer building, 95 x 193 ft., and a boiler-house, 58 x 50 ft., for the Kenyon Fibre Co., M. L. Keyes, Mgr.

PAWTUCKET, R. I.—The E. K. WATSON CO. has the contract for constructing a brick factory building, 32 x 100 ft., for the United Brush Co. S. B. Fuller is Arch.

WOONSOCKET, R. I.—The Loridan Co., Woonsocket, contemplates the erection of a new spinning mill. Judge Ambrose Feeley is interested.

BRISTOL, CONN.—A site has been purchased at Bristol by M. L. Barrett and C. C. Garrigues, for the location of a 2-story brick factory building, to be 36 x 100 ft., and to cost $13,000. Work will be started in the spring.

WESTPORT, CONN.—It is probable that the Westport Paper Co. will have plans prepared for a plant to replace the one recently burned at a loss of $30,000. Robert Post is Pres.

ROCHESTER, N. Y.—The Moerlbach Brewing Co. was incorporated with a capital of $150,000 for the purposeof erecting a brewery on Emmerson St. and Seneca Boulevard. The buildings planned are a brew house, 80 x 80 ft., four stories high; a malt house, 100 x 35 ft., four stories; engine house, 40 x 40 ft., four stories; cooper and repair shops and barns, combined, 60 x 35 ft., two stories; bottling department, 80 x 30 ft., two stories; office building, 40 x 40 ft., two stories. The producing capacity of the plant will be 35,000 bbls. of beer and 25,000 bbls. of ale annually. The bottling department will have a daily capacity of 1,000 bottles, ale and beer, per day, and the malt house will hold 100,000 bushels. The buildings, constructed of cement and steel, will be fireproof.

BUFFALO, N. Y.—We are officially advised that the BUFFALO STRUCTURAL STEEL CO. has contract for the structural steel to be used in constructing an enginehouse here for the New York Central & Hudson River R. R. Co. The shops, which will be situated at Bailey Ave. and the West Shore R. R. tracks, include a roundhouse which were estimated to cost $120,000, according to plans placed on file with the Building Department; a machine shop, estimated at $20,000; a fan-house, $10,000, and two storehouses, $10,000 each. A. W. Carpenter is Engr. of Structures, Exterior Zone, New York, N. Y.

WAMPUM, PA.—The Crescent Portland Cement Co. is receiving bids for the construction and equipment of a plant for the manufacture of Portland cement. It will be built a short distance south of the present plant of the company, and will cost, when completed, about $1,000,000. None of the interior equipment will be removed from the old plant, as it is the intention of the company to build and equip an entirely new plant. Work will be started as early in the spring as the weather will permit.

PITTSBURG, PA.—The pork packing plant of Rea & Co., 610 Second Ave., Pittsburg, Pa., which was almost entirely destroyed by fire recently, causing a loss of $100,000, is to be rebuilt.

LURAY, VA.—The Page Milling Co. will install a complete outfit of machinery, including belting, etc., for 150-bbl. flour mill. The machinery was purchased from WOLF CO., Chambersburg, Pa. at $10,000. Cornmeal machinery with capacity of 250 bushels per day will be installed; automatic weighing system will be added. Will be operated by electric motors.

WILMINGTON, N. C.—The Cape Fear Lumber Co., J. A. Arringdale, Vice-Pres. and Mgr., will rebuild mill burned at a loss of $100,000.

MORGANTOWN, N. C.—It is reported that the Alpine Cotton Mills, Morgantown, N. C., has decided upon the erection of an addition, 75 ft. long, to the present mill building. This company operates 10,214 ring spindles and manufactures cotton yarns.

SPARTANBURG, S. C.—It is stated that Elisha Bomar, of Spartanburg, S. C., will take action soon towards the organization of a company to build a cotton mill during the summer. He is interested with John B. Cleveland, George S. Begg and Horace Bomar in plans to build a 5,000 spindle mill, to be capitalized at $125,000.

BALL GROUND, GA.—S. L. CLAY & SON, of Cedartown, Ga., have secured contract for the buildings for the Ball Ground Cotton Mills, of Ball Ground, Ga. It will establish a plant of 10,000 spindles and 300 looms for the production of cotton denim and cotton duck, and from 250 to 300 operatives will be employed. The buildings will include main structure, two stories, 75 x 320 ft.; dye-house, 75 x 90 ft.; picker room, 32 x 75 ft., and engine and boiler rooms, each of which will be 40 ft. square. These buildings will be of brick, with concrete foundations. The Ball Ground Co. has the following officers: A. J. Lovelady, Pres.; C. M. Wofford, Vice-Pres., and Frederick A. Abbott, Gen. Mgr.

ALBANY, GA.—It is reported that Smith D. Pickett and associates, of Albany, Ga., will organize a company to build a cotton mill of 10,000 spindles. They have determined to complete arrangements at once. The mill will be driven by electricity.

GADSDEN, ALA.—The Campbell Mfg. Co has been organized with $50,000 capital stock supplies; Otto Agricola, Pres.; Robert Campbell, Vice-Pres. and Gen. Mgr.; John S. Paden, Treas. It will erect wood and concrete buildings, 100 x 250 ft., 50 x 80 ft., 40 x 60 ft. and 20 x 40 ft.; cost, $7,500; cost of machinery, $12,500. The company will make pipe-fittings and Campbell patented clean-out and sink brackets. Plant will be operated by electric power and will be ready for operation in four months.

MADISONVILLE, TENN.—The establishment of a knitting mill at Madisonville has been decided upon, and the Madisonville Knitting Mills have been organized with $15,000 capital stock for this purpose. An equipment of machinery will be installed to have a daily capacity of 250 dozen pairs of ladies' hose. R. C. Kefauver is Pres.; T. E. H. Closkey, Vice-Pres.; J. W. Cobb, Secy., and T. L. Upton, Treas. and Gen. Mgr.

JOHNSON CITY, TENN.—The Model Mill Co. has been incorporated with $100,000 capital stock, to establish mill with a daily capacity of 200 bbls. of wheat flour and 2,400 bushels of corn. Plans are being prepared for erection of reinforced concrete building. About $50,000 will be invested. A. L. Bauhard, Bristol, Va.-Tenn., is Pres. and Gen. Mgr. W. H. Small, Indianapolis, Ind., and James B. Jackson, Altapass, N. C., are among the incorporators.

MEMPHIS, TENN.—The Conley Frog & Switch Co. will erect a 1-story building, to cost about $20,000. J. E. Conley is Pres.

LOUISVILLE, KY.—The Independent Ice & Coal Co. will erect a 3-story plant, 54 x 180 ft., for manufacturing ice, to have a capacity of 100 tons a day. John Meyer is Pres.

The NATIONAL CONCRETE CONSTRUCTION CO., Board of Trade Bldg., has secured the contract for concrete construction at the Bourbon Stock Yards, at $101,000.

MANSFIELD, OHIO.—Bids are asked until March 18, by the Board of Managers of the Ohio State Reformatory, for installing a 10-ton ice-making and refrigerating machine. Jacob Reinhardt, Mansfield, is Steward; Fred S. Marquis is Secy., Bd. Mgrs.

COLUMBUS, OHIO.—D. Riebel & Son, New First National Bank Bldg., Columbus, have completed plans for a 2-story envelope factory, 2-story office building and 1-story lithograph building for the Columbus Lithograph Co., C. M. Nichols, Gen. Mgr. Cost, $40,000.

CLEVELAND, OHIO.—The Euclid Paint Co. will erect a 6-story building, it is stated. Plans were prepared by the Carey Construction Co.

CINCINNATI, OHIO.—J. C. Lemon, Arch. and Engr., Grand Opera House Bldg., is preparing plans for a 1 and 2-story casting building, and a 2-story separating machinery building for the Eagle White Lead Co., John B. Swift, Pres., 1020 Broadway, Cincinnati. Estimated cost, $12,000 and $8,000.

HUDSON, WIS.—The Hudson Cold Storage Co. has decided to increase its capital stock from $60,000. The additional funds will be used for the constructing and equipping of a packing house, mainly for pork packing.

NEW HOLSTEIN, WIS.—John Menge, Jr., Arch., Matthews Bldg., Milwaukee, Wis., has completed plans for a 1-story machine shop for gasoline engines for the J. Lawson Mfg. Co., New Holstein.

WAUKESHA, WIS.—Plans have been completed by H. C. Hengels, Arch., Milwaukee, Wis., for a bottling house to be built for the National Water Co., Waukesha. It will cost $60,000.

RED OAK, IOWA.—The Standard Bridge Co., Omaha, Neb., is having plans prepared for a 1-story factory building to be erected, 60 x 100 ft., at Red Oak. It will be built of brick with tin or composition roofing, etc., and will cost $25,000.

DES MOINES, IOWA.—The Des Moines "News" states that work will commence in the spring on erecting two buildings, an office and shop for the T. W. Dodd Co., manufacturers of structural iron. A location has been secured at the foot of Pelton Ave., between Third and Fourth Sts. It is proposed to erect one 1-story building, 32 x 72 ft. to the workshop and a smaller office building. All kinds of structural material will be manufactured.

ST. PAUL, MINN.—Griggs, Cooper & Co., wholesale grocers, Third and Sibley Sts., St. Paul, will build a manufacturing grocery establishment at University Ave., Fairview, Aldine and Thomas Sts. Cost, $800,000.

OMAHA, NEB.—Arch. John Latenser, Bee Bldg., Omaha, has let general contract to W. P. DEVERELL for a 2-story laundry building for House of Good Shepherd.

KANSAS CITY, MO.—The plant of Morris & Co., Riverview Station, which was partly destroyed by fire recently, will be rebuilt, at an estimated cost of $750,000.

The Crushed Stone & Filler Co., Scarritt Bldg., recently incorporated, will establish a stone-crushing and filler plant, at a cost of $75,000 for buildings, machinery, etc. It will construct a 2,000-cu. yd. crushing plant and a 1,500-ton filler plant. The company will produce crushed stone for railroad ballast and concrete work, glasshouse sand, asphalt filler, fertilizer and other rock products. William Mansfield, Pres.; Clifford W. Lyon, Vice-Pres. and Gen. Mgr.; Albert M. Peck, Treas.; Dennet E. Babbitt, Secy.

SPRINGFIELD, MO.—The Phoenix Foundry & Machine Company, Springfield Mo., is preparing to extend its plant by the erection of a new foundry, 50 x 87 ft., the equipment for which is purchased. It is expected that this addition to the works will be ready for operation about May 1.

FAYETTEVILLE, ARK.—The Ozark Lumber & Spoke Co., recently incorporated to manufacture lumber and spokes, will erect two sawmills and a spoke factory. Cost of building and machinery, $10,000; daily capacity spokes, 5,000. J. C. Blackford is Secy. and Gen. Mgr., Pettigrew, Ark.

FORT SMITH, ARK.—It is reported that the Ardmore Foundry Machine & Boiler Co., Ardmore, Okla., will establish a rolling mill in Fort Smith. Estimated cost, $200,000.

EUREKA SPRINGS, ARK.—The Granger-Gelley Lumber Co. has purchased the timber property of Baker Lumber Co. and will establish a plant at Eureka Springs for manufacturing wagon spokes, hubs, ax handles, etc. F. E. Ayres is Pres.

DALLAS, TEX.—The Southwestern States Portland Cement Co. will erect a plant in West Dallas, which will cost about $1,500,000.

FORT WORTH, TEX.—The proposed Farmers' Union Cotton Factory will be built on what is known as the Factory Place Addition, southwest of the city, according to an agreement reached by the joint committee, composed of J. C. Albryton of the State Farmers' Union; W. S. Mitchell of the Tarrant County Farmers' Union, and A. N. Evans of the Factory Club. The site embraces ten acres.

OREGON CITY, ORE.—T[illegible] Hawley Pulp & Paper Co., lately formed, w[illegible] establish a pulp and paper mill. The capit[illegible]ck is $[illegible]. The incorporators are W[illegible] Hawley, T. J. Seufert, R. E. Bryan and [illegible] M. Healey, Abington Bldg., Portland, O[illegible]. The construction of the plant will begin [illegible]nce and it will be located on the east side [illegible] the Willamette River close to the Basin. [illegible] soon as in operation employment will b[illegible] furnished to at least 300 men.

LOS ANGELES, CAL.—P[illegible] for the erection of a $400,000 mill [illegible] the Los Angeles Cotton Mills Co. are [illegible]orted to have been completed. Dennis [illegible]rth is head of the company.

LINDSAY, ONT.—The St[illegible]rd Implement Co., London, Ont., has been [illegible]nized with a capital of $60,000, to manu[illegible]re farm implements. A factory will [illegible] erected in Chelsea Green, Lindsay, in [illegible] spring.

TORONTO, ONT.—Excava[illegible] has been started for a 4-story facto[illegible] for the James Morrison Brass Mfg. Co., [illegible] Adelaide St., Toronto, which will be er[illegible] at a cost of about $60,000.

GRANBY, ONT.—S. H. C[illegible] Miner intends to build a rubber factory h[illegible]. Work will be started in the spring.

CALGARY, ALTA.—It is [illegible] that J. A. McDonald is contemplating [illegible]ablishing a confectionery factory in Cal[illegible].

MISCELLANEOUS CONTRACTS.

(** denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Railways.

STEEL STACK, FLYWHEEL.—Waterloo, Wis.—See under Light and Power Plants.

GRAND-STAND.—Ottawa, Ont.—The Exhibition Board has decided to erect a new grand-stand. Estimated cost, $75,000.

*DREDGING.—Springfield, Ohio.—Bids are asked until noon, March 2, by the Board of Public Service for dredging Buck Creek. W. H. Mahoney, Clk.

DITCH.—Missouri.—E. M. Graves, 17 Commercial Bank Bldg., Cleveland, Ohio, has 600,000 cu. yds. of ditch work in southern Missouri to let at good prices.

*WHARF.—Key West, Fla.—Plans and specifications for wharf at Fort Taylor are on file at office of Engineering News, New York. Bids are asked until March 14, as noted last week.

*DOCK, WHARF.—New York, N. Y.—Bids are asked until 2.45 p. m., April 1, by G. C. Burnell, Constr. Q. M., for construction of storage dock and timber wharf at Fort Wood. (Advertised last week.)

*DREDGING.—New London, Conn.—Bids are asked by Major Harry Taylor, Corps Engrs., U. S. A., until noon, March 11, for dredging in Thames River, Conn. (Advertised last week.)

*PIERS.—Baltimore, Md.—Plans and specifications for the construction of Piers 4, 5 and 6 will be sent on receipt of $15. Bids are asked until March 11 by the Harbor Board, Baltimore.

FLOATING CRANE.—Quebec, Que.—Bids are asked by the Quebec Harbor Commissioners, Quebec, until May 1, for the supply of a 30-ton capacity floating crane. St. George Boswell, Ch. Engr.

*WHARF.—Jamestown, R. I.—Plans and specifications for wharf addition at Fort Wetherill are on file at office of Engineering News, New York. Bids are asked until March 4, as noted last week.

*DREDGING.—New London, Conn.—Bids are asked until noon, March 13, by Major Harry Taylor, Corps Engrs., U. S. A., for dredging in Pawcatuck River and Little Narragansett Bay, R. I., and Conn. (Advertised last week.)

DITCH.—Charleston, Miss.—Bids are asked by E. Bacon, Secy. County Drainage Comrs., until March 3, for constructing a main ditch in Ascalmore Drainage Dist., to be about four miles long, 4 ft. deep and 20 ft. wide. Estimated cost, $14,000.

RAIL PIPE FENCES.—New York, N. Y.—Bids are asked by the Department of Parks, Arsenal Bldg., until 3 p. m., March 5, for furnishing and erecting three rail pipe fences around the grass plots in City Hall Park, Boro. of Manhattan.

*SNAGBOATS.—Mobile, Ala.—Bids were received on Feb. 10 by Maj. H. Jervey, Corps Engrs., U. S. A., for constructing two wooden hull stern-wheel snagboats. Contract was awarded to the HOWARD SHIPBUILDING CO., Jeffersonville, Ind.

TUGS.—Ottawa, Ont.—Bids are asked until March 2 for the construction of three steel tugs. Plans and specifications may be seen at Government Engineer's Offices, Halifax, Ottawa, Toronto and Montreal. Fred. Gelinas, Secy. Dept. Pub. Wks.

PIER.—Santa Monica, Cal.—Bids are asked until March 2 by the City Council for construction of a pier at the foot of Colorado Ave. This structure will contain about 200 concrete piles, which are to be reinforced. Cost, $100,000. Thomas H. James is City Engr. Noted last week.

SAND.—New York, N. Y.—Bird S. Coler, Pres. Boro. of Brooklyn, received the following bid on Feb. 13 from the Phoenix Towing & Transportation Co., 17 State St., New York, for furnishing (a) 4,500 cu. yds., (b) 4,000 cu. yds. sand: (a) 75 cts. a cu. yd.; (b) 85 cts. cu. yd.; total, $6,725.

PIER.—Hoboken, N. J.—R. P. & J. H. STAATS, 29 Broadway, New York, have the general contract to build a 225-ft. extension to a pier built by them for the Hoboken Land & Improvement Co. The extension will be constructed of yellow pine piles and timber. A shed of steel frame construction will be erected. The steel will be supplied by the FAGAN IRON WORKS, Third St., Hoboken. Cost, about $90,000.

*SINKING SHAFT.—York, Pa.—Bids are asked by the Virgin Copper Co. until noon, March 15, for sinking a 6-ft. x 8-ft. x 300-ft. mine slope in a rock formation. Plans and specifications may be obtained from J. H. Dechert, Pres. Diamond drill cores of rock formation may be viewed at office of the company.

GRAND STAND.—New York, N. Y.—Bids are asked until 11 a. m., March 2, by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for the general construction of a grand stand to be placed on the athletic field on Crotona Park North, opposite Prospect and Clinton Aves., Crotona Park, Boro. of the Bronx.

FIRE HOSE.—New York, N. Y.—Bids are asked until 11:30 a. m., March 3, by Hugh Bonner, Fire Comr., for furnishing 30,000 ft. 3-in. 6-ply, 20,000 ft. 3-in. 5-ply, 30,000 ft. 2½-in. 4-ply rubber fire hose for the Borough of Manhattan; 10,000 ft. 3-in. 6-ply, 10,000 ft. 2½-in. 4-ply rubber fire hose for the Borough of Brooklyn.

FLOOD CONTROL.—Harrisburg, Pa.—Bids are asked until 2.30 p. m., March 6, by D. E. Tracy, Secy. Bd. Pub. Wks., Harrisburg, for the construction of works to control floods in Paxton Creek Valley, and all necessary appurtenances in the City of Harrisburg. James H. Fuertes, 140 Nassau St., New York, N. Y., is Consult. Engr.

CANAL.—Ottawa, Ont.—Bids are asked until 4 p. m., March 12, by the Department of Railways and Canals, L. K. Jones, Secy., Ottawa, for construction of Section No. 3, Ontario-Rice Lake Division, Trent Canal. J. B. Brophy, Div. Engr., Trenton, Ont. Specifications and bidding sheet are on file at the office of Engineering News, New York. (Noted on Jan. 23.)

*DREDGING.—Baltimore, Md.—One bid was received on Feb. 12 by the Harbor Board of Baltimore for dredging about 590,000 cu. yds. Bid was submitted by the Maryland Dredging & Contracting Co., Fidelity Bldg., Baltimore, as follows: Ship channels and harbor, 15 cts. a cu. yd.; back basin and docks, 17 cts.; middle branch channels and docks, 17 cts.; channel, Wills St. to Light St., 30 cts.; $58,000 is available for this work.

*BARGE CANAL.—Albany, N. Y.—Bids are asked by F. C. Stevens, Supt. Pub. Works, until noon, March 10, for Contract No. 9, Erie Canal—Section 10—For the improvement of the present Erie canal from 0.164 mile east of Eagle Harbor bridge to 0.09 mile west of Beal's bridge. Length of contract, 5.682 miles. (Advertised last week.)

One bid for this work was received on Jan. 31. Itemized prices were given on Feb. 6.

FIRE EXTINGUISHERS.—New York, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, until 11 a. m., March 2, for fire extinguishing apparatus for Public Schools Nos. 2, 8, 14, 27, 35, 42, 43, 45, 47, 48, 55, 66, 76, 80, 92, 109, 123, 146, 147, 151, Girls' High School, Boys' High School, Commercial High, 123, 146, 147, 151, Girls' High School and Brooklyn Training School for Teachers, Boro. of Brooklyn.

DITCH.—Elbow Lake, Minn.—Bids were received on Feb. 7 by O. E. Wold, County Audr., for constructing drainage ditch No. 3. Contract was awarded to HENGEN & AMUNDSON, Glencoe, Minn., at $16,308.

Bids are asked until March 25 by O. E. Wold, County Audr., for construction of County Ditch No. 5. Estimated cost, $5,243. Estimated quantity of earth work, 41,945 cu. yds. Morgan & Wilson, St. Cloud, Minn., are Engrs.

HARBOR ENTRANCE.—Toronto, Ont.—Bids are asked until March 2, by the Department of Public Works, Ottawa, Ont., for the construction of a new western entrance to the Harbor of Toronto, according to plans and specification to be seen at the office of J. G. Sing, Resident Engr., Confederation Life Bldg., Toronto, at the office of H. J. Lamb, Res. Engr., London, Ont., at the office of J. L. Michaud, Res. Engr., Merchants' Bank Bldg., St. James St., Montreal, Que., and the Department of Public Works, Ottawa.

DITCH.—Rockwell City, Iowa.—Bids are asked until Feb. 26 by the Joint Board of Supervisors of Sac and Calhoun counties at the office of B. E. Stonebraker, Audr. Calhoun County, at Rockwell City, for constructing a tile drain in Cedar Township, Sac County and Garfield Township, Calhoun County, known as Dists. Nos. 7 and 59, respectively. Total length of drain, 36,682 ft., ranging in size from 8 to 30 ins. Estimated cost, $27,945.

Bids are asked by B. E. Stonebraker, County Audr., until Feb. 27 for constructing an open ditch and tile drain in Butler, Sherman, Twin Lakes and Garfield Townships, requiring about 10,125 ft. tile, ranging from 14 to 24 in. and 573,533 cu. yds. excavation.

CEMENT.—New York, N.Y.—The following bids were received on Feb. 13 by Bird S. Coler, Pres. Boro. of Brooklyn, for furnishing 7,500 bbls. Portland cement; (a) price per bag, (b) amount allowed on each bag returned: J. H. Colyer & Sons, 11 Front St., Brooklyn, (a) $1.68, (b) 7½ cts.; G. B. Raymond Co., 288 Borden Ave., Long Island City, (a) $1.74; Audley Clark Co., 527 Smith St., Brooklyn, (a) $1.68, (b) 7½ cts.; Stephen P. Duffy, 51st St., Brooklyn, (a) $1.68, (b) 7½ cts.; Edison Portland Cement Co., 1133 Broadway, (a) $1.499, (b) 7½ cts.; United Building Materials Co., 320 Broadway, (a) $1.50, (b) 7½ cts.; Fredberg & Loungsley, 150th St., (a) $1.48, (b) 7½ cts.; J. P. Kane, 933 East 150th St., (a) $1.48, (b) 7½ cts., in barrels, $1.43.

BALLOON.—Washington, D. C.—Bids were received as follows, Feb. 15, at the office of the Chief of the Signal Corps, War Dept., Washington, D. C., for a dirigible balloon, to carry a combined weight of 350 lbs. and at least 100 lbs. of ballast. It is designed to have a speed of 20 miles per hour in still air: G. W. Myer, Hammondsport, N. Y., $6,000, 160 days; Henry B. Schiller, Philadelphia, $23,500, 180 days; Soren C. Rockman, Philadelphia, $25,000, 180 days; Raymond Anglemire, Chicago, no price stated, 180 days; Baumbaugh & Heimann, St. Louis, Mo., $10,000, 250 days; Louis Lupette, Paris France, $20,000, 90 days; Carl E. Myers, Frankfort, N. Y., $11,994, 120 days; Wm. Reiferscheld & Co., Streator, Ill., $8,000, 150 days; Charles Ellis, Toledo, Ohio, $10,000, no time stated; Thomas S. Baldwin, New York, $6,750, 150 days; Peter Cooper Hewitt, New York, $20,000, 200 days.

U. S. POSSESSIONS AND CUBA.

PIPE.—Panama.—Requisitions have been received from the Isthmus for furnishing a quantity of pipe, as follows: 58,900 ft. galvanized wrought-iron or steel pipe, 2½ to 6-in.; 83,000 ft. black-iron pipe, ¼-in. to 4½-in.; 47,000 ft. extra-strong wrought-iron pipe, with necessary fittings, etc. Bids will be asked on this material soon.

BLASTING MATERIAL.—Panama.—Bids are asked by H. F. Hodges, General Purchasing Officer, Isthmian Canal Comn., Washington, D. C., until Feb. 27 for blasting material, including dynamite, powder, exploders, detonators, fuse, wire, etc. Blanks and general information relating to Circular No. 424 obtainable from above office or offices of assistant purchasing agents, 24 State St., New York; Custom-House, New Orleans; 1086 North Point St., San Francisco, Cal., and 410 Chamber of Commerce Bldg., Tacoma, Wash. Also from U. S. Engineer Office in following cities, Los Angeles, Cal.; Baltimore, Philadelphia, Pittsburg, Boston, Buffalo, Cleveland, Cincinnati, St. Paul, Detroit, Milwaukee, Chicago, St. Louis, Chattanooga, Louisville and Mobile.

*CABLEWAYS.—Panama.—Bids were received as follows on Feb. 18 (postponement from Feb. 3) at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission for eight duplex cableways for use in the construction of the locks at Gatun. It is to consist of four duplex cableways operating digging buckets and four across the locks for placing concrete and the necessary motors for driving same. Lidgerwood Mfg. Co., 96 Liberty St., New York, (a) $386,607; (b) $397,301; (c) $361,821; (d) $369,700; delivery, 90 to 200 days; erection completed, 270 days. S. Flory Mfg. Co., Bangor, Me., $574,900; $580,372; 90 to 120 days delivery; erection completed, 210 days. Brown Hoisting Machinery Co., St. Clair Ave., Cleveland, Ohio, $1,155,000; no time stated. New York Cableway & Engineering Co., 2 Rector St., New York, (a) $397,475; (b) $420,690; (c) $436,895; (d) $430,500; (e) $458,750; (f) $420,200; (g) $440,890; (h) $457,095; (i) $450,700; (j) $478,950; erection completed, Dec. 1, 1908. Lambert Hoisting Engine Co., 115 Poinier St., Newark, N. J., (a) $418,264; (b) $423,264; (c) $425,264; 150 days. Balanced Cable Crane Co., 135 William St., New York, (a) $275,000; $307,000; 180 days.

Also for two cable railways in connection with the same work: Exeter Machinery Co., Pittston, Pa., $31,500; 200 days. Arthur Koppel Co., 68 Broad St., New York, cars only, $7,500. Mead Morrison Mfg. Co., 11 Broadway, New York, $67,300, $51,400; 150 days. Wonham-Magor Engine Works, 29 Broadway, New York, $28,696; 120 days. Guarantee Construction Co., 140 Cedar St., New York, $34,480; 130 days. Atlantic Gulf & Pacific Co., Park Row Bldg., New York, $64,650; 130 days. Bergen Point Iron Works, 149 Broadway, New York, $29,174, $28,990; 180 days. New Jersey Foundry & Machine Co., 9 Murray St., New York, $51,400, $49,150, $48,500.

LUMBER.—Panama.—Bids were received as follows Feb. 13, at the office of the Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing (a) 1,400,000 ft. B. M. more or less, of lumber, various sizes, and (b) 3,200 untreated piles, (long-leaf yellow-pine or Douglas fir), from 35 to 60 ft. long, to be used in connection with the power plant at the Gatun dam: A. S. Bacon & Sons, 2 Bay St., West, Savannah, Ga., (a) $38,173; $36,759; (b) $26,088; 150 days. G. S. Baxter & Co., 15 William St., New York, (b) $24,817; 60 days. Bryan W. Ives, Riverdale, N. C., (b) $23,920; 115 days. Chicago Lumber & Coal Co., Fullerton Bldg., St. Louis, Mo., (a) $37,113.59; (b) $28,405; 108 days; $64,811, if awarded all. Dixon Lumber Co., Savannah, Ga., (a) $36,568; 70 days. G. Elias & Bro., Buffalo, N. Y., (a) $38,635; $39,588; (b) $29,155; $29,900; 90 days. Eppinger & Russell Co., New York, (a) $39,945; 150 days. William D. Gill & Co., 701 President St., Baltimore, (a) $38,105; (b) $29,078; 120 days; total, $55,500, if awarded all. Granger & Lewis, 830 Equitable Bldg., Baltimore, (a) $36,689; 150 days. J. K. Joyce, 164 Dearborn St., Chicago, (a) $35,000; 75 days. Long Bell Lumber Co., Kansas City, Mo., (a) $38,915; no time. Olsen Mahoney Lumber Co., foot of Powell St., San Francisco, (a) $37,132; 200 days; (b) $43,355; 190 days. W. L. MILES, Globe, Wash., (a) $32,378; 60 days (awarded contract). S. E. Naylor & Co., Gulfport, Miss., (a) $38,527; 90 days; (b) $25,992; 75 days. Pacific Export Lumber Co., Chamber of Commerce Bldg., Portland, Ore., (a) $31,105; (b) $39,991; 130 days. J. A. Rennolds & Bro., 116 Broad St., New York, (b) $29,000; 90 days. Robt. R. Sizer & Co., Jacksonville, Fla., (a) $38,173; (b) $25,789; 75 days. Seattle Timber Supply Co., Seattle, Wash., (b) $13,082, delivered at Seattle, 90 days. Southern Sawmill Co., Hennan Bldg., New Orleans, (b) $25,415. Stange & Easley, Newlin, La., (a) $45,245; (b) $32,890; 120 days. AMERICAN TIE & TIMBER CO., New York, (b) $24,294; 38 days; $23,546; 50 days (awarded contract at latter price). D. L. Gillespie & Co., 540 Wood St., Pittsburg, (a) $37,768; (b) $26,910; 60 days; (a) $40,568; (b) $29,900; 45 days; if delivered at Porto Bello, add 50 cts. per M. ft. to lumber and 1 ct. per lin. ft. to ties; if delivered in 90 days, subtract $1 per M. ft. from lumber; 1 ct. per lin. ft. from ties; total, if awarded all, $61,878; 60 days. J. H. Burton & Co., 45 Broadway, New York, (a) $32,417; 120 days; (b) $26,536; $27,657; 85 days. L. J. Merriman, Wilmington, Del., (b) $27,000; 80 days. Yellow Pine Co., of Philadelphia, Pennsylvania Bldg., (a) $43,829; 150 days.

FOREIGN CONTRACTS.

TRAMWAYS.—Roumania.—Bids are asked by the Corporation of Cralova, until March 14, at the Mayor's Office, Bucharest, for the construction of a system of tramways. Offers must be accompanied by a guarantee of 5,000 fr. (about $1,000). The specification and other documents with reference to the contract can be consulted at the office of the Corporation, or at the following addresses: Messrs. Watson & Youell, 14 Str. Academiei, Bucharest; Henry Bouron, Rue Nouvelle 7, Paris; Henry Laval, Rue Chaptal 17, Paris; Alfred Vaechter, Rue Gachard 82, Brussels.

PORT CONSTRUCTION.—Bulgaria.—Bids are asked until 3 p. m., March 23, by the Bulgarian Direction des Constructions des Chemins de fer et des Ports for the construction of the commercial port of Svichtov, the estimated cost of the project being 1,120,000 francs (about $224,000). A deposit of 56,000 francs (about $11,200) must be paid into the National Bulgarian Bank in order to qualify any bid submitted. The specifications and plans may be obtained from the "Direction" on payment of 10 francs. Bids, marked "Offre pour la Construction du Port de Commerce de Svichtov," must be delivered to the Direction des Constructions des Chemins de fer et des Ports, Rue Muskovska No. 27, Sophia. It is advisable to submit bids through a competent agent.

Readers' Wants

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

ENGINEERING CATALOGS.—J. C. Robinson, general contractor, 910 Rector Bldg., Chicago, would like to receive catalogs from firm manufacturing or supplying material for engineering or construction work.

ELECTRICAL CONDUITS.—Suffern & Co., importers and exporters, 90-96 Wall St., New York, want information on electrical conduits, both rigid and flexible. They expect soon to be in the market for two or three carloads.

SEWER CLEANING APPARATUS.—The Board of Public Service of Sandusky, Ohio, desires to communicate with manufacturers of sewer cleaning apparatus, especially such minor tools as jointed cleaning rods, etc. Address Clifford M. King, Ch. Engr.

INDUSTRIAL NOTES.

THE ERIE ENGINE WORKS, Erie, Pa., announces that Mr. J. H. Turner has been appointed its representative in Michigan and northern Ohio, with offices at Grand Rapids, Mich.

THE ROCKY MOUNTAIN CEMENT CO. has placed an order with the Lehigh Car, Wheel & Axle Works, Catasauqua, Pa., for Fuller-Lehigh pulverizer mills for grinding coal, rock and clinker in their new plant at Calgary, Alberta, Canada.

IT IS ANNOUNCED that the Reeves Engine & Machine Co., Trenton, N. J., has purchased the plant and business of the Reeves Engine Co. of Trenton and will continue to manufacture the well and favorably known line of Reeves compound and single cylinder engines.

WE ARE ADVISED that the Lucas Pump Co., Dayton, Ohio, has opened a branch office in the Monadnock Block, Chicago, Ill. This office will have charge of the sale of the Lucas power pumps in the following territory. Illinois, Wisconsin, Minnesota, Iowa, the eastern half of Missouri and the eastern half of Nebraska.

THE ROBINS NEW CONVEYOR CO., New York, which has been recently incorporated, will be operated under the management of Thomas Robins, who founded the Robins Conveying Belt Co. in 1896 and was President of that concern until March, 1907, when its management passed into other hands. The position of Chief Engineer in the new company is filled by C. Kemble Baldwin, who has served in the Robins Conveying Belt Co. in the same capacity for the last seven years. The offices of the company are at 38 Wall St., New York, and 1240 Old Colony Bldg., Chicago.

CIVIL SERVICE EXAMINATIONS.

STATISTICIAN.—Washington, D. C.—An examination will be held on March 4-5 by the U. S. Civil Service Commission to secure eligibles to fill three vacancies in the position of statistician, at salaries of from $1,200 to $1,800 a year, in the Geological Survey, and vacancies requiring similar qualifications as they may occur in that Survey. Age limit, 20 years. Application Form 1312.

CLERK.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on March 4 to secure eligibles to fill a vacancy in the position of clerk (male), with a knowledge of Latin, French, indexing and typewriting, at $660 a year, in the Bureau of Plant Industry, Dept. of Agriculture, and vacancies requiring similar qualifications as they may occur in that Department. Age limit, 18 to 25 years. Application Form 304.

AID.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on March 4 to secure eligibles to fill a vacancy in the position of aid (male), $600 a year, in the Bureau of Standards, Dept. of Commerce and Labor, similar vacancies as they may occur in that Bureau, at $600 and $720 a year, and vacancies requiring similar qualifications as they may occur in any branch of the service. Age limit, 20 years. Application Form 1312.

ASSISTANT SUPERINTENDENT.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on March 25, to secure eligibles to fill at least two vacancies in the position of assistant superintendent of seed warehouse and seed distribution, at salaries from $900 to $1,500 a year, in the Bureau of Plant Industry, Dept. of Agriculture, and vacancies requiring similar qualifications as they may occur in that bureau. Age limit, 25 years. Application form, 1312.

SUPERVISING ENGINEER.—Tennessee.—The U. S. Civil Service Commission announces an examination on March 4 to secure eligibles to fill a vacancy in the position of supervising engineer, at $125 a month, under the War Department, and vacancies requiring similar qualifications as they may occur. The Department states that the service in the position mentioned will be required for a period of six months from Jan. 1, 1908, in the Chickamauga and Chattanooga National Park. Age limit, 20 years. Application Form 1312.

TRAFFIC INSPECTORS.—Albany, N. Y.—The following persons passed the recent examination held by the State Civil Service Commission for traffic inspector in the Public Service Commission; salary, $1,000 a year:

George V. Hogan, 133 St. James Place, Buffalo, N. Y.	87.43
John J. Murray, 205 Babcock St., Buffalo, N. Y.	86.61
Robert T. Donahue, 227 West 142d St., New York City	86.
Silas J. Hoffman, 24 Ann St., St. Johnsville, N. Y.	78.9

FOOD INSPECTOR.—Washington, D. C.—An examination will be held on March 4-5 by the U. S. Civil Service Commission to secure eligibles to fill vacancies in the position of food and drug inspector (male), at salaries of $1,000 to $1,800 a year, in the Bureau of Chemistry, Dept. of Agriculture. As a result of this examination three registers will be established, depending upon the experience shown, from which certification shall be made to (1) food inspector, (2) drug inspector, and (3) food and drug inspector. The practical questions will be the same for all classes. Men only will be admitted to this examination. Age limit, 20 to 45 years. Application Form 1312.

APPRENTICE DRAFTSMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on March 4, to secure eligibles to fill a vacancy in the position of apprentice draftsman (male), Office of the Chief of Ordnance, War Dept., at $360 a year, and vacancies requiring similar qualifications as they may occur in that Department. Promotion is made up to $90 a month, in the discretion of the Chief of Ordnance. An apprentice may enter the competitive examination for the position of draftsman (entrance salary $1,000 to $1,200) whenever, in the opinion of his superior officer, his training and experience are sufficient. Age limit, 17 to 21 years. Application Form 1312.

EXECUTIVE ASSISTANT.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on March 4 to secure eligibles to fill vacancies as they may occur in the position of executive assistant (male), in the Bureau of Plant Industry, Department of Agriculture, at salaries ranging from $1,600 to $2,000 a year. At present there are two vacancies in this position—one in connection with tobacco investigations and the other in the office of the cerealist. It is desired to secure as a result of this examination persons who are graduates of agricultural colleges and who have taken up executive or administrative work rather than scientific research. Age limit, 20 to 40 years. Application Forms 1312 and 1424.

INSPECTORS, DESIGNER, ETC.—Albany, N. Y.—The State Civil Service Commission will hold examinations on March 7, for the following positions: Architectural Designer, State Architect's Office, $1,500 to $2,500; Assistant Inspector of Gas, Public Service Comn., $1,080; Assistant Transfer Tax Clerk, Surrogate's Office, Kings County, $1,500; Bank Examiner, $8 to $10 a day; Building Inspector, State Architect's Office, $5 a day; Engineering Inspector, State Architect's Office, $2,250 and traveling expenses; Rodman, $3.50 to $4 a day; Tracer, State Engineer's and State Architect's Offices, $480 to $900. The last day for filing applications for these positions is Feb. 29th. Examinations will be held March 21 for Clerk and Junior Clerk, applications to be filed on or before March 14th. Examinations for Stenographer will be held in March. Charles S. Fowler, Ch. Examiner.

ASSISTANT GEOLOGIST.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on March 4-5 to secure eligibles from which to make certification to fill a vacancy in the position of assistant geologist, qualified in petrology, at $75 a month, in the Geological Survey. This position is temporary in character and the need for services of the appointee will not extend over more than six months. As the result of this examination certification will be made to fill vacancies as they may occur in the positions of assistant geologist and geologic aid in the Geological Survey, at salaries ranging from $1,000 to $1,600 a year, depending upon the qualifications and experience of the eligibles. In certain cases where only a portion of the time of the appointee can be given to the work of the Department, the compensation will be upon a per diem basis for the service rendered. Appointments to the position of temporary field assistant will also be made from the resulting eligible list as far as possible. The compensation of such positions ranges from $60 to $100 per month, and the length of employment from three to seven months. Age limit, 20 years. Application Form 1312.

For other Proposal Advertisements see pages 47, 48, 49, 50, 51, of Advertisements and Construction News page 60.

PAVING.

Cortland, N. Y., Feb. 10, 1908.

Sealed proposals for the paving of North Main St. and Homer Ave., in the City of Cortland, N. Y., with either Sheet Asphalt or Vitrified Brick or Block Pavement will be received at the office of the Board of Public Works of Cortland, N. Y., until 8 o'clock p. m., of the 25th day of February, 1908.

The approximate estimate of the quantities is as follows:

15,350 sq. yds. either Sheet Asphalt or Vitrified Brick or Block Pavement.
6,975 lin. ft. Stone Curb or Cement Curb and Gutter.
275 lin. ft. Stone Headers.
510 lin. ft. 18" Vitrified Tile Pipe.
630 lin. ft. 15" Vitrified Tile Pipe.
225 lin. ft. 10" Vitrified Tile Pipe.
150 cu. yds. Broken Stone.
500 cu. yds. Portland Cement Concrete.
5 Catch Basins.
1 Manhole.
4 Inlets.

Each bid must be made out on the printed forms of proposal furnished by the Board of Public Works.

Contractors will be paid monthly approximate estimate in cash, 85% of the amount due for the work at that time done.

A certified check payable to the order of the City Chamberlain of the City of Cortland, N. Y., will be required in the following amounts to accompany each bid.

For North Main St., $1,000.00, for Homer Ave., $1,000.00.

One check for each street is all that is necessary for all propositions.

Plans may be seen at the office of the Board of Public Works or the Engineer, and Specifications, Form of Proposal, Contract, etc., obtained from the City Clerk.

By order of the Board of Public Works of the City of Cortland, N. Y.

E. S. DALTON,
City Clerk.

D. B. COLEMAN,
Engineer.

PAVING.

Oil City, Pa.

Sealed proposals will be received at the office of the City Controller of Oil City, Pa., up to 4 P. M., Monday, March 9, 1908, for grading, curbing and paving Graff, Stout, Spruce and Polaski Sts., and portions of Duncomb St. and Harriot Ave. in said city.

The work will embrace approximately 10,000 cu. yds. of excavation; 7,610 lin. ft. curbing; 12,130 sq. yds. brick paving; 700 cu. yds. concrete retaining wall; 100 ft. 12-in. sewers; 400 ft. 10-in. sewers; and 25 sewer inlets.

Plans and specifications may be obtained at the office of the City Engineer.

Bids must be on blanks furnished by the city, and must be accompanied by certified check or surety company bond in the sum of six hundred ($600) dollars, as a guarantee that the bidder will, if successful, enter into a contract with the city in accordance with the terms of his proposal, and furnish bond in such amount as the city may require.

The city reserves the right to reject any or all bids.

C. W. MULLALLEY,
Controller.

GRAVEL ROAD.

Sealed proposals to build the First Section of the Farmingdale and Hamilton gravel road, extending from Farmingdale easterly along the road that leads to Asbury Park 3 miles, will be received by the Board of Chosen Freeholders of the County of Monmouth at the Court-House in Freehold, on the 11th day of March, 1908, at 11 o'clock in the forenoon, and then and there publicly opened.

Specifications and all information relating to said construction may be had by applying to Peter Forman, Engineer, at his office, Manalapan, N. J., or at the Freeholders' office in the Court-House, Freehold, or of George W. Patterson, Jr., Clerk of the Board, at Ardena, N. J.

Each bidder must accompany his proposal with a certified check for one thousand dollars, payable to the Director of the Board of Chosen Freeholders, as a guarantee if said work is awarded to him he will enter into a contract with the said Board for the due and faithful performance of the work, which contract must be executed, together with the bond of the successful bidder, within the term of twenty days from the time of awarding the contract in the penal sum of at least the total estimated cost of the work, with two or more freeholders, or a good and sufficient surety or trust company as sureties, all to be first duly approved by the Director of the Board and State Commissioner of Roads, and conditioned for the faithful performance of the work in strict conformity with the plans and specifications.

The Board reserves the right to reject any or all bids.

Dated February 17, 1908.

WILLIAM B. CONOVER, Director.

Attest:

GEO. W. PATTERSON, JR.,
Clerk of the Board.

SEWER.

Office of the Commissioners of Sewerage of Louisville, Incorporated.

Sealed proposals for the construction of a sewer, known as Section "A" of the Beargrass Intercepter, Contract No. 4, of the Comprehensive System of Sewerage for the City of Louisville, Kentucky, will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, March 12th, 1908.

This work consists mainly of a sewer of the following sizes and lengths:

5 ft. 8 in. by 5 ft. 4½ in.....2,100 ft. long
6 ft. 1½ in. by 6 ft. 6 in.....2,447 ft. long

The principal items in the Engineer's estimate of the work are approximately as follows:

Excavation, 2,510 lin. ft. in open cut.
Excavation, 2,120 lin. ft. in tunnel.
Concrete (three classes), 3,500 cubic yards.
Piles, 24,000 linear feet.
Reinforcing steel bars, 126,000 lbs.

Plans and specifications may be seen at the office of the Commissioners, at the office of this paper, and at the office of the Consulting Engineer, Harrison P. Eddy, of Metcalf & Eddy, 14 Beacon Street, Boston, Mass.

Sealed bids should be endorsed "Proposals for Section 'A' of the Beargrass Intercepter" and addressed to the Commissioners of Sewerage, 603, 605 and 607 Equitable Building, Louisville, Ky. Each bid shall be accompanied by a certified check for at least seven per cent (7%) of the total amount of the bid or a "Bidder's Bond" as described in the form of proposal.

P. L. ATHERTON,
Chairman.

CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

WATER-WORKS.

Mendham, N. J.

Sealed proposals, addressed to Leo Robinson, Borough Clerk, Mendham, New Jersey, and endorsed "Proposals for Constructing Water-Works," will be received at the Borough Hall until 8 o'clock p. m., Monday, March 16, 1908, and then publicly opened, for constructing a water-works system in and for said Borough.

Specifications and information for bidders may be obtained upon application, by mail or in person, from the Borough Clerk.

The Borough reserves the right to reject any or all bids or to reject a part of any bid.

E. W. ELLICOTT, Mayor.
LEO ROBINSON, Clerk.

WATER-WORKS MATERIALS.

Mendham, N. J.

Sealed proposals, addressed to Leo Robinson, Borough Clerk, Mendham, New Jersey, and endorsed "Proposals for Material," will be received at the Borough Hall until 8 o'clock p. m., Monday, March 16, 1908, and then publicly opened, for furnishing and delivering f. o. b. cars at Mendham, N. J., the following approximate quantities of material:

510 tons of cast-iron water pipe.
8 tons of special castings.
38 double-nozzle fire hydrants.
44 valves for water pipe.
3 automatic air-valves.
37 valve-boxes.

Specifications and information for bidders may be obtained, upon application, by mail or in person, from the Borough Clerk.

The Borough reserves the right to reject any or all bids or to reject a part of any bid.

E. W. ELLICOTT, Mayor.
LEO ROBINSON, Clerk.

STONE ROAD.

Sealed proposals to build the Manalapan connecting stone road, extending from Manalapan Village to Manalapan Church, 1,400 feet in length, will be received by the Board of Chosen Freeholders of the County of Monmouth, at the Court-House in Freehold, on the 11th day of March, 1908, at 11 o'clock in the forenoon, and then and there publicly opened.

Specifications and all information relating to said construction may be had by applying to Peter Forman, Engineer, at his office at Manalapan, N. J., or at the Freeholders' office in the Court-House, Freehold, or of George W. Patterson, Jr., Clerk of the Board of Freeholders at Ardena, N. J.

Each bidder must accompany his proposal with a certified check for one thousand dollars, payable to the Director of the Board of Freeholders, as a guarantee if said work is awarded to him he will enter into a contract with the said Board for the due and faithful performance of the work, which contract must be executed, together with the bond of the successful bidder, within the term of twenty days from the time of awarding the contract, in the penal sum of at least the total estimated cost of the work, with two or more freeholders or a good and sufficient surety or trust company as sureties, all to be first duly approved by the Director of the Board and the State Commissioner of Public Roads, and conditioned for the faithful performance of the work in strict conformity with the plans and specifications.

The Board reserves the right to reject any or all bids.

Dated February 17, 1908.

WILLIAM B. CONOVER, Director.

Attest:

GEO. W. PATTERSON, JR.,
Clerk of the Board.

CONSTRUCTION OF WORKS TO CONTROL FLOODS IN PAXTON CREEK VALLEY.

Sealed proposals will be received at the office of the Board of Public Works, No. 27 South Second St., Harrisburg, Pennsylvania, until 2.30 o'clock P. M., Friday, March 6th, 1908, for the construction of works to control floods in Paxton Creek Valley, and all necessary appurtenances in the City of Harrisburg, Pennsylvania.

Bids will be publicly opened at 3 o'clock P. M., Friday, March 6th, 1908.

Each bid must be accompanied by a preliminary bond in the sum of ten per cent. (10%) of the cost of the work.

A surety company bond in the sum of twenty-five per cent. (25%) of the contract price will be required of the successful bidder.

Plans, specifications, proposal sheet and form of contract can be obtained at the Office of the Board of Public Works, and at the office of James H. Fuertes, Consulting Engineer, No. 140 Nassau Street, New York City, upon making a deposit of fifty dollars ($50.00). This deposit will be refunded upon the return to the Board of the plans and specifications in good condition.

The right is reserved to reject any and all bids.

D. E. TRACY,
Secretary Board of Public Works.

PAVING.

Smethport, Pa.

Notice is hereby given that on and after the twelfth day of February, 1908, bids for the paving of Main Street, Smethport Borough, McKean Co., Pa., in accordance with the plans and specifications now on file at the Council Chambers in said Borough, will be received by the Secretary of the Borough Council and the same will be opened at the said Council Chambers on February Twenty-Seventh, 1908, at Eight O'clock P. M., at which time all bids must be in.

The Borough of Smethport reserves the right to accept or reject any and all bids.

W. G. HOLDER,
Secretary of Council.

CONSTRUCTION OF BUILDINGS.—Fort Hancock, N. J., February 19, 1908.—Sealed proposals for construction, plumbing, heating and wiring of one double or two single sets of barracks at this post will be received here until 2 p. m., March 19, 1908, and then opened. Information furnished on application. U. S. reserves right to reject any or all proposals. Envelopes containing proposals should be endorsed "Proposals for Barracks," addressed M. N. FALLS, Captain, Constructing Quartermaster.

PIERS.

Plans and specifications [illegible] Baltimore, Md. [illegible] the construction of Piers 4, 5 and [illegible] be sent on receipt of $15. Bids open[illegible] March 11, 1908.

HAR[illegible] BOARD,
[illegible]ltimore, Md.

Situations Wanted

SUPERINTENDENT OF [illegible]TER-WORKS, fourteen years' experien[illegible] construction, operation and general [illegible]ess management; open for engag[illegible]nt. Moderate salary. O. C. LONGYE[illegible] South Portland Ave., Brooklyn, N. [illegible] 8-6t

ENGINEER, acknowledged [illegible]ert, handling large projects North and [illegible]th America, desires engagement to [illegible] reconnaissance, reports, estima[illegible] or economic location for railways. R[illegible] upon physical condition and earn[illegible]pacity. Address "M. A. S," Engin[illegible] News, New York. 8-1t

Situations Open

WANTED—A first-class man [illegible] superintendent on section of Erie Barge canal. Requires a knowledge of excavation work, concreting and lock construction. Thorough experience absolutely necessary. State fully experience and salary wanted. Address "Z. B. S," Engineering News, New York. 8-1t

ESTIMATOR wanted by a New York building contractor; one experienced in taking off steel, cut stone, carpentry, etc., and able to make lists and schedules of same, preferably, but not necessarily an engineer. Give fullest details in regard to yourself as to experience, salary expected, etc. Address "W. B. S," Engineering News, New York. 8-1t

Miscellaneous Wants

ENGINEER—Water-works, sewerage and expert sewage disposal engineer; design systems for institutions and cities; advise as to methods and costs; advise local engineers. Address "K. A. S," Engineering News, New York. 8-6t

WANTED—A copy of Burr's "Elasticity and Resistance of Materials." State price. Address A. R. T., care Engineering News, New York. 8-1t

WANTED—Will pay $2.00 for 1 copy of Engineering News of June 15, 1874, at that time called the Engineer, Architect & Surveyor; 25c. for copies of the Index to Vol. 51, Dec. 2, 1897, Feb. 15, 1900, Dec. 4, 1902, and 10c. each for copies of Feb. 22, Mar. 29, 1906, May 2, July 4, 18, Aug. 22, Oct. 24, Dec. 19, 1907, Jan. 2, 9, 1908. Cost of mailing allowed in addition. Address A. R. T., care Engineering News, New York. 8-1t

A CONTRACTOR having some excellent work desires a partner with money to finish contracts. Must be a first-class structural engineer. Address "X. B. S," Engineering News, New York. 8-1t

WE WANT TO BUY

A Second-Hand 10 or 12-ton 3-Wheel Steam Roller

RUSSELL & JENNISON,
8-1t 313 Huron St., Toledo, Ohio.

WANTED.

Good Second-Hand Transits

with all attachments; also 16" or 18" "T" levels. Price must be reasonable. ALPHA ENGINERING CO., 167 Dearborn St., Chicago. 8-2t

TABLES OF SAFE LOADS

For Wooden Beams and Columns

By KIDWELL and MOORE

Tables showing Safe Loads, Deflections, etc., based on allowable working unit stresses recommended by "Committee on Strength of Bridge and Trestle Timbers," of the Association of Railway Superintendents of Bridges and Buildings.

They cover 17 different kinds of timber, and include beams up to 36-ft. span, and posts 40 ft. long and 20 x 20 ins. section.

Paper, 6 x 9 inches; 57 pages
Price, 50 Cents

The Engineering News Book Dept.

PUBLISHERS AND BOOKSELLERS

220 Broadway, New York

Write us for books on any subject.

Supplement

CO

CONSTRUCTION
Plans and Spec
List of Contra
Railways .....
Electric Railwa
Light and Pow
Bridges .....
Buildings ....
Water Supply
Sewerage .....
Garbage Dispo
Streets and R
Manufacturing
Miscellaneous
Contract Price
READERS' WAN
CIVIL SERVICE
INDUSTRIAL NO
TRADE PUBLICA
PROPOSALS .....

CONSTR

PLANS AND SP

(* *denotes that t*
Engin

The following Pl
(S.) are on file an
of The Engineeri
220 Broadway, Ne

2-29 Elec. elevato
3- 1 Water-work
couver, B.
3- 2 Paving, Titu
3- 4*Wharf, Jame
3- 5 Widening ca
.....
3- 5*Repairing p
Mich.....
3-11*Piers, Baltin
3-11*Dredging, N
3-12 Cement, Pa
3-12*Intercepter,
.....
3-12 Canal, Otta
3-13*Dredging, N
3-14*Wharf, Key
3-14*Walls, Buffa
3-15*Sinking sha
3-16*Dikes, New
3-18 Pumping pla
Cal. .....
3-19*Barracks, S
.....
3-21 Bldgs. and p
Wash. ....
3-25 Ditch, Elbo
.....
3-25*Basin, Sprin
3-28 Boilers, etc.
.....
4- 1*Canal, Klam
4-15*Dam, Portl
5- 1 Floating cra

LIST OF CO

LIGHT, HEAT

3- 1 Lights, Rad
3- 2 Motors, Nat
3- 2*Power-house
3- 4 Light Fixtur
3-16 Power plan
Wis. .....
3-16 Power plan
3-17*Conduit, L
3-18 Elec. equip
Ill... .....
3-28 Boilers stac
Wash. ...
4- 1 Lighting, M
4- 6 Elec. suppli
4- 7 Electric Pla

B

2-29 Concrete ar
Ohio .....
2-29 Bridge, Mal
2-29 Steel bridge
2-29 Stone arch
Pa. .....
3- 1*Steel supers
N. L., Me
3- 2 Trestle brid
3- 2 Bridge, Gr
3- 2 Superstructu
3- 2 Bridge repai
3- 2 Drawbridge,
3- 2 Bridge, Va
3- 3 Pile bridge,
3- 3 Bridge, Fit
3- 3 Bridge, Pa
3- 3 Steel bridge
3- 3 Trestle brid
3- 4 Steel bridge
3- 4 Bridge, etc.
3- 4 Bridge, Till
3- 6 Bridges, Al
3- 6 Reinforced-c
Falls, Min
3- 7 Culvert, et
3-10 Bridges, Bi
3-14 Bridges, Br
3-14 Bridge, Not
3-14 Steel concre
Ohio .....
3-17 Bridge, Mil
3-19*Steel b'dge,
3-25 Bridge, Re
3-31 Bridge plan

B

2-28*Post-office,
2-28 Refrigeratin
Plants), A
2-28 Bldg. mate
Kan. .....
2-29 Hospital, W
2-29 School, Tol